

The Faculty of Medicine
The Faculty of Dental and Oral Surgery
Continuing Education in the Health Sciences:
Postgraduate Courses

Columbia University Bulletin

MEDICINE · NURSING · PUBLIC HEALTH · ALLIED HEALTH
DENTAL AND ORAL SURGERY · DENTAL HYGIENE



1980-1981

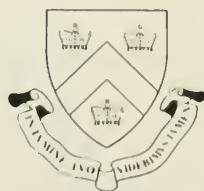
For additional information and applications, please contact:

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Medicine: The Postgraduate Program

Opportunities for continuing medical education beyond the M.D. degree are offered at Columbia University through three major programs: (1) the training of specialists by means of hospital residencies; (2) the Doctor of Medical Science program, for physicians with particular interest and competence in research in the basic sciences; and (3) special courses in general medicine and in the specialties, for practicing physicians and physicians in training who wish to renew and continue their educational experiences in the various fields of medicine. Further information about these programs may be obtained from the Office of the Dean of the Faculty of Medicine.

Graduate Training of Specialists: Residency Training Program

The program offers training opportunities through fellowships at the College of Physicians and Surgeons and residencies at affiliated hospitals for holders of the M.D. degree. Proper training for specialization includes four major elements. First, it provides a comprehensive clinical experience as a resident in a hospital equipped and staffed to provide graded responsibilities under the supervision of experts in the selected specialty. Second, it disciplines the resident in scientific attitudes toward health and disease and enriches the clinical experience through advanced training in those medical sciences that are largely concerned with his or her specialty. Third, it enables the resident to begin to understand the effect of illness on the patient and the response of that person to the illness and to the physician. The relationships the resident physician develops with individual patients sets the pattern for his or her participation in the delivery of health care after the completion of the residency. Finally, it gives the student the opportunity, either as a resident or as a fellow, to do basic or clinical research. This, in turn, may stimulate the type of creative productivity that may earn a recommendation for admission to a program leading to the award of the Doctor of Medical Science degree.

Information concerning residency training may be obtained by writing to the appropriate departmental chairman at the College of Physicians and Surgeons.

Program for the Doctor of Medical Science Degree

The University confers the Med.Sc.D. degree upon a few physicians who have completed a research project in one of the basic science fields. Only staff members of Columbia University-affiliated hospitals are eligible for this degree. A minimum of two years of full-time work in the basic science field is required. Additional requirements include completion of a significant and original research project, the passing of a comprehensive and an oral examination, and submission of a dissertation.

Further information can be obtained from the Office of the Dean, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, N.Y. 10032; telephone (212) 694-5530.

Postgraduate Courses for Practicing Physicians and Specialists

A variety of short courses have been organized at hospitals and clinics affiliated with the University; they are available at the Columbia-Presbyterian Medical Center and at the affiliated hospitals. No University credit or certificates are granted for these courses, but continuing medical education credit is granted toward the Physician's Recognition Award of the American Medical Association.

Courses for the general practitioner furnish opportunities to keep abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention; and to learn the indications, limitations, and value of those technical procedures which require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, lectures, symposia, demonstrations, and discussion.

For those already practicing a speciality, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is limited to those who have the preparation necessary to enable them to benefit by the advanced instruction.

With the consent of the course director, except when space and facilities are limited, courses are open to medical students, interns, residents, fellows, and attending staff members of the College of Physicians and Surgeons and the affiliated hospitals on a tuition-free basis. A nominal charge may be made for registration and the documentation of credits. Many of the courses are available to alumni of the College of Physicians and Surgeons at a reduced fee; information can be obtained by contacting the Continuing Education Center.

Continuing Medical Educational Activities of the Departments of the College of Physicians and Surgeons

A number of teaching exercises such as conferences and grand rounds which are held at the Columbia-Presbyterian Medical Center and the affiliated hospitals have been approved as meeting the criteria for a planned program of continuing medical education as defined by the American Medical Association. An approved program is one that covers a subject area in the scope and depth that is appropriate for the intended audience and is planned, administered, and evaluated in terms of educational objectives that define a level of knowledge or a specific performance skill to be attained. The teaching exercises that have been approved qualify for credit in Category 1 of the Physician's Recognition Award and are listed in this bulletin. Documentation of credits earned can be obtained for a nominal fee. These programs permit P&S faculty members to fulfill their requirements for continuing education.

Courses for Graduates of the College of Physicians and Surgeons

Practical clinical electives in all departments are offered to P&S graduates. These courses, from one to four weeks in duration, are arranged on an individual basis between September and June. The individual graduate is integrated into all departmental activities including rounds, clinics, conferences, seminars, and specialized procedures. Specific courses in all specialties, including medical and surgical subspecialties, are offered. Inquiries by alumni should be addressed to José M. Ferrer, M.D., Associate Dean, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, N.Y. 10032. A nominal fee is charged to cover administrative costs.

Programs in Continuing Medical Education for Community Hospitals

At the request of a neighboring community hospital the Continuing Education Center will arrange a lecture or series of lectures to be held at the community hospital. The programs are approved for one credit an hour in Category 1 of the Physician's Recognition Award of the American Medical Association (see Statements of Attendance below). The lecturers are members of the staff of the College of Physicians and Surgeons and the affiliated hospitals. Lecturers receive an honorarium from the community hospital for participation in these programs. A nominal administrative fee is charged to the community hospital for the arrangements and for the recording and documentation of credit for those physicians who attend the lectures. These programs improve relations with hospitals and practitioners in

neighboring communities, help to fulfill responsibilities in updating the knowledge of these practitioners, and result in the referral of patients with special problems to the staff members who participate in these programs.

Admission Requirements and Procedures

An applicant must hold a Doctor of Medicine degree or the equivalent from a school of medicine approved by the University and must be a physician in good standing. Admission to courses for specialists is limited to physicians who have had adequate preliminary training and experience in the related specialty.

Application forms are printed on the last page of this bulletin. *One form for each course must be filled out in full and returned to Dr. Elizabeth C. Gerst, Director, Center for Continuing Education in the Health Sciences, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, N.Y. 10032; telephone (212) 694-3682.* The form should be accompanied by a check made payable to Columbia University for the full course fee; the amount of the fee is included in the description of each course. The completed form should reach the University not later than seven days before the opening date of the course.

Note: According to Treasury decision 6291, under Section 162 of the 1954 Internal Revenue Code, income tax deductions are allowed in many instances for tuition and other educational expenses. Students are referred to the federal ruling on income tax deductions for teachers and other professional people seeking to maintain or improve skills required in their employment.

Applicants are reminded that hotel rooms, apartments, and other temporary living accommodations are almost impossible to find near any of the teaching centers. All the centers, however, are easily accessible from the midtown area, where such housing is more likely to be available. Students who wish to live near the Morningside campus of the University (in the vicinity of 116th Street and Broadway) may write for information to the Columbia University Registry of Off-Campus Accommodations, 110 Livingston Hall, Columbia University, New York, N.Y. 10027. Some accommodations are available in the immediate vicinity of the Columbia-Presbyterian Medical Center, at 168th Street and Broadway, in the medical students' residence hall. For information write to Bard Hall, 60 Haven Avenue, New York, N.Y. 10032, or telephone (area code 212) 923-6800.

The Columbia-Presbyterian Medical Center is accessible from the midtown area on the West Side by way of the Seventh and Eighth Avenue subways, both of which stop at 168th Street.

If an applicant is not accepted, or if a course applied for is canceled, full refund will be made. *If a student withdraws later than ten days before the course begins, there will be no refund. If a student withdraws prior to ten days before a course begins, refund of the fee will be given minus administrative costs.*

The University reserves the right to withhold the privilege of registration or any other University privilege from any person with unpaid indebtedness to the University.

Statements of Attendance

The courses listed in this bulletin do not constitute credit toward any degree, and no diplomas or certificates are awarded. A short statement of attendance will be issued on written request. Students should write to the Associate Registrar, 630 West 168th Street, New York, N.Y. 10032. *Students who audit courses do not receive a statement of attendance.*

As an organization accredited for continuing medical education, the College of Physicians and Surgeons of Columbia University designates the continuing medical educational offerings listed in this bulletin as meeting the criteria for credit hours (as indicated) in Category 1 of the

Physician's Recognition Award of the American Medical Association. Credit hours toward this award are shown at the end of the descriptive title for each course.

Statement of Nondiscriminatory Policies

The University is required by certain Federal statutes and administrative regulations to publish the following statements:

Consistent with the requirements of Title IX of the Education Amendments of 1972, as amended, and Part 86 of 45 C.F.R., the University does not discriminate on the basis of sex in the conduct or operation of its educational programs or activities (including employment therein and admission thereto). Inquiries concerning the application of Title IX and Part 86 of 45 C.F.R. may be referred to the University's Equal Opportunity Office (402 Low Memorial Library, New York, N.Y. 10027, telephone 212-280-3554), or to the Director, Office for Civil Rights (Region II), 26 Federal Plaza, New York, N.Y. 10007.

Columbia University admits students of any race, color, national and ethnic origin to all the rights, privileges, programs, and activities generally accorded or made available to students at the University. It does not discriminate on the basis of race, color, national and ethnic origin in administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other University-administered programs.

Consistent with the requirements of Section 504 of the Rehabilitation Act of 1973, as amended, and Part 84 of 45 C.F.R., the University does not discriminate on the basis of handicap in admission or access to, or employment in, its programs and activities. Section 503 of the Rehabilitation Act of 1973 requires affirmative action to employ and advance in employment qualified handicapped workers.

The University in addition desires to call attention to other laws and regulations that protect employees, students, and applicants.

Title VI of the Civil Rights Act of 1964, as amended, prohibits discrimination on the basis of race, color, or national origin in programs or activities receiving Federal financial assistance. Title VII of the Civil Rights Act of 1964, as amended, prohibits employment discrimination because of race, color, religion, sex or national origin. Executive Order 11246, as amended, prohibits discrimination in employment because of race, color, religion, sex or national origin and requires affirmative action to ensure equality of opportunity in all aspects of employment.

The Equal Pay Act of 1963 prohibits discrimination on the basis of sex in rates of pay. The Age Discrimination in Employment Act of 1967, as amended, prohibits discrimination in employment on the basis of age.

The Columbia University Senate on December 1, 1978, passed a resolution announcing its general educational policy on discrimination which reaffirms the University's commitment to nondiscriminatory policies in the above-mentioned categories, as well as its policy not to discriminate on the basis of sexual orientation.

Section 402 of the Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended, prohibits job discrimination and requires affirmative action to employ and advance in employment (1) qualified Vietnam era veterans during the first four years after their discharge and (2) qualified disabled veterans throughout their working life if they have a 30 percent or more disability.

The University's Equal Opportunity Office has also been designated to coordinate the University's compliance activities under each of the programs referred to above.

Reservation of University Rights

This bulletin is intended for the guidance of persons applying for or considering application for admission to Columbia University and for the guidance of Columbia students and faculty. The bulletin sets forth in general the manner in which the University intends to proceed with

respect to the matters set forth herein, but the University reserves the right to depart without notice from the terms of this bulletin. This bulletin is not intended to be and should not be regarded as a contract between the University and any student or other person.

Affiliated Hospitals at Which Postgraduate Courses are Offered

The Columbia-Presbyterian Medical Center

A permanent affiliation between Columbia University and the Presbyterian Hospital was established in 1921. The College of Physicians and Surgeons of Columbia University in conjunction with the Presbyterian Hospital and several other institutions comprising the Medical Center now occupy a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. The land, extending from West 165th Street to West 168th Street and from Broadway to Riverside Park, comprises about twenty acres and is readily accessible from all parts of the city.

The Medical Center was opened in 1928. The Medical Center group is as follows: College of Physicians and Surgeons; School of Dental and Oral Surgery; School of Public Health; School of Nursing; Washington Heights District Health and Teaching Center; New York State Psychiatric Institute; and the Presbyterian Hospital and its subdivisions.

The Presbyterian Hospital

Founded in 1868, the hospital now occupies a twenty-two-story building in which are the wards of the medical and surgical services, the Sloane Hospital for Women, and the Squier Urological Clinic. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the Hospital on nomination by the Trustees of the University. There are 1,550 beds.

Presbyterian Hospital has the following subdivisions:

Babies Hospital, The Children's Medical and Surgical Center, founded in 1887, provides for general medical and surgical care of infants and children up to their thirteenth birthday, and care for premature babies. The total capacity of the hospital is 172. An outpatient department is maintained in Vanderbilt Clinic by the attending and house staff of the hospital.

The Edward S. Harkness Eye Institute, opened in 1933, has complete facilities for the medical and surgical treatment of adults and children with diseases of the eye, and has a total capacity of 100. On January 1, 1940, the work of the Herman Knapp Memorial Eye Hospital was taken over by the Institute.

Harkness Pavilion was erected when the Medical Center was established in 1928, and is available for the accommodation of 318 adult private patients.

Neurological Institute, one of the first nongovernmental hospitals in the country for the treatment of nervous diseases, was founded in 1909. It moved from East 67th Street to the Medical Center in 1929. The Institute has a capacity of 250 beds, including 15 added in 1960 for psychiatric patients.

The New York Orthopaedic Dispensary and Hospital opened as a dispensary in 1866 largely because of the interest taken in the care of the crippled by Theodore Roosevelt, father of the President of the same name. The Orthopaedic Dispensary and Hospital was located in its own building at 420 East 59th Street until December 1950, when it was moved to the fifth floor of the Presbyterian Hospital. Its capacity is 122 beds.

Sloane Hospital for Women was built at West 59th Street and Amsterdam Avenue and

presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now occupies three floors of the Presbyterian Hospital building and one floor in Harkness Pavilion. There are 187 beds, of which 124 are ward beds.

Squier Urological Clinic occupies the tenth floor of the Presbyterian building and the tenth floor of Babies Hospital. There are 67 beds for the care of adults and 20 beds for babies and children.

Vanderbilt Clinic was presented to Columbia University by the Vanderbilt family in 1888 and is the common outpatient department and admitting service for all the wards of all the units of Presbyterian Hospital.

Harlem Hospital Center

Harlem Hospital Center, founded in 1887, is a general hospital of 1,100 beds serving Central Harlem and environs, responsible for the care of approximately four hundred thousand people. The College of Physicians and Surgeons, through a contractual arrangement with the New York City Health and Hospitals Corporation, is responsible for all professional services in this hospital and nominates its entire professional staff, who are members of the Faculty of Medicine.

This affiliation presents a unique opportunity for teaching students, interns, and residents in the traditional disciplines of medicine, and provides increasing opportunities for involvement in community medicine.

St. Luke's Hospital Center

St. Luke's Hospital Center was established in 1850 and has been located on Morningside Heights, adjacent to the main Columbia campus, since 1896. St. Luke's Hospital and Woman's Hospital are the component parts of the Hospital Center which contains 773 beds, including 53 pediatric beds. In addition, Woman's Hospital has 70 bassinets. There are four major and eleven specialty services. St. Luke's Hospital has maintained a teaching affiliation with the University since 1947 and in 1971 became a full University hospital. St. Luke's emergency room handles more than ninety thousand visits a year and the various clinics almost one hundred seventy thousand visits annually. Extensive research laboratory facilities are included in a new Service and Research Building. A medical library is an integral part of the Hospital Center. Under the terms of affiliation with Columbia University, new members of the medical staff are appointed by the Board of Trustees of the Hospital only after such members receive appointments as officers of instruction at the College of Physicians and Surgeons of the University. St. Luke's Hospital Center and The Roosevelt Hospital have recently merged and are known as the St. Luke's-Roosevelt Hospital Center.

The Roosevelt Hospital

The Roosevelt Hospital treated its first patient in 1871. It comprises 595 beds and bassinets. There are about two hundred sixty-three thousand outpatient and emergency-room visits annually. The hospital is engaged in many research and teaching activities. A new research building containing 52,000 square feet of laboratory space for all departments was opened in 1973. The medical library contains 17,000 volumes and subscribes to 550 medical and technical journals. The hospital has been affiliated with the College of Physicians and Surgeons since the early years of the century and in 1971 became a full University hospital. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the hospital on nomination by the Trustees of the University. The hospital is actively engaged in community programs, as represented by its Children and Youth Program and by its drug addiction, alcoholism, and many other outreach and community

programs sponsored by the Departments of Pediatrics, Psychiatry, Medicine, and Ambulatory Care. The hospital is now part of the St. Luke's-Roosevelt Hospital Center.

New York State Psychiatric Institute

The Institute was built and is maintained by the New York State Department of Mental Hygiene. Through a contractual arrangement, it is affiliated with the College of Physicians and Surgeons. The Institute's functions are to carry out research on the causes and treatment of psychiatric disorders and the education of those entering the mental health field. The Institute currently maintains twelve major research laboratories, a hospital, and a number of specialized outpatient departments providing diagnostic and treatment facilities.

The Mary Imogene Bassett Hospital

The Mary Imogene Bassett Hospital in Cooperstown, New York, is a rural hospital combining the characteristics of a university medical center with a dedication to the delivery of both primary health services to the local community and highly specialized services to a large referral area. The hospital has 184 beds and a staff of specialists who are all salaried and full-time. In 1979 there were over 110,000 visits to the Outpatient Department and over 5,000 admissions. The teaching program for house staff and students is a highly personalized one based on a team approach to medical care. Members of the staff conduct biomedical research and are interested in models for the delivery of health care to the community. The library is unusually extensive for a hospital of this size with 19,500 volumes and about four hundred subscription journals. Since 1947 the Mary Imogene Bassett Hospital has had a formal affiliation with Columbia, and each year approximately seventy-five students from Columbia elect programs at the hospital.

The Helen Hayes Hospital

The Helen Hayes Hospital at West Haverstraw, New York, founded in 1900, is a 150-bed independent rehabilitation hospital with complete medical services, owned and operated by the state through the New York State Health Department. Since 1966 the hospital has had a formal affiliation with Columbia University. The medical specialties and allied health professionals are organized into disability units that provide comprehensive care through an integrated team approach, providing unique educational opportunities for residents and allied health students. The hospital has 800 admissions and 6,000 outpatient visits a year. New patient facilities are under construction, the research building has been renovated, and an active biomedical engineering unit developed.

Overlook Hospital

Overlook Hospital in Summit, New Jersey, is a 540-bed, suburban community hospital, founded in 1906, which became a teaching affiliate of the Columbia University College of Physicians and Surgeons in 1975. It is a general, voluntary, nonprofit institution accommodating 20,000 inpatients and 100,000 outpatients each year. Overlook offers particularly strong training in family practice and the primary care aspects of medical practice through a program of broad-based clinical experience for graduate physicians.

Morristown Memorial Hospital

Morristown Memorial Hospital is a 541-bed community hospital, founded in 1892 and located in Morristown, New Jersey, 30 miles west of New York City. In addition to its acute care

facility (the Madison Avenue Division), the hospital has a 148-bed, long-term care facility one and one-half miles away (Mt. Kemble Division). The acute care facility annually admits approximately twenty-one thousand patients and treats fifty thousand patients in the Emergency Department. The Hospital offers a broad range of residency programs chaired by full-time chiefs in the major departments. There is a strong emphasis on primary care. Morristown Memorial Hospital affiliated with the Columbia University College of Physicians and Surgeons in 1979, changing from its previous affiliation of seven years with the College of Medicine and Dentistry of New Jersey-Rutgers Medical School. A strong medical staff of over four hundred covers a wide spectrum of medical specialties and provides comprehensive teaching activities.

Medicine: Courses of Instruction

The University reserves the right to withdraw or modify the courses of instruction or to change the instructors as may be necessary.

Anesthesiology

Anesthesiology PM 1. Anesthesiology lecture series

Sept 4 through June 25. Th 5:30-6:30. No fee. (1 hour each lecture)

Drs. Henrik H. Bendixen and Kevin V. Sanborn, staff, and guest lecturers. Columbia-Presbyterian (Babies Hospital, 4th floor, amphitheater).

Open to physicians, nurses, and allied health personnel. Lectures on recent developments in the field.

Anesthesiology PM 2. Seminars in anesthesiology

Sept 9 through June 23. Tu 7:30-8:30 a.m. No fee. (1 hour each session)

Drs. Henrik H. Bendixen and Kevin V. Sanborn, and staff. Columbia-Presbyterian (Black Building, 7th floor, Pharmacology-Anesthesiology Library).

Open to physicians, nurses, medical students, and allied health personnel. A review of the basic sciences underlying the practice of anesthesiology. Lectures with opportunity for discussion.

Anesthesiology PM 3. Basic cardiopulmonary resuscitation instructor workshops

Sept 13-14. Sat-Sun, 9-5 (repeated at intervals throughout the year). \$150. Affiliated residents, nurses, therapists, \$100. Columbia-Presbyterian. (16 hours)

Dr. Marcelle Willock and guest lecturers in basic cardiac life support measures.

For physicians, dentists, nurses, respiratory therapists, and others interested in being instructors. Enrollment limited to 30. Registrants learn how to conduct basic life support courses, improve their own teaching skills, and acquire in-depth knowledge of the subject matter. Use of audiovisual aids, mannequin maintenance and troubleshooting, and practical skills evaluation. Registrants required to present lesson plans, to teach on an individual basis, and to team teach.

Anesthesiology PM 300. Basic cardiac life support

Ongoing throughout the year, 12-hour training course, dates and times to be announced. No fee. (12 hours each session)

Drs. Jay Brown and Herbert Cave and guest lecturers in emergency cardiac care and cardiopulmonary resuscitation. The Harlem Hospital Center (Martin Luther King Pavilion, Room 6101-6130).

Sponsored by the Committee on Cardiopulmonary Resuscitation of the Medical Board of The Harlem Hospital Center and designed to familiarize the participants with the elements of emergency cardiac care and to develop skills in cardiopulmonary resuscitation according to the American Heart Association guidelines for the following: one rescuer C.P.R., two rescuer C.P.R., infant rescuer and management of the obstructed airway. Instructor to student ratio: 1 to 6. Instructional materials include an adult recording mannequin, infant mannequin, and workbooks. To receive certification each participant must attain a grade of 85 percent on the written examination and must give a masterly performance in adult and infant rescue.

Dermatology

Dermatology PM 1. Arden House seminar

Sept 27-28. Annual departmental meeting. \$80. (4 hours)

Drs. Robert R. Walther and Robert B. Armstrong, and guest lecturers. Columbia University Conference Center at Arden House.

Open to members of the department and invited guests. Advances in basic science in relation to clinical dermatology. Formal presentations and discussion periods.

Dermatology PM 2. Clinical dermatology

Oct through June. Wed 3-5. \$920. (46 hours)

Drs. Leonard C. Harber, Saul Sanders, and Robert R. Walther, staff, and guest lecturers. Columbia-Presbyterian (Anthony N. Domonkos Conference Room, Vanderbilt Clinic, 5-557).

Limited enrollment. Outline of program with speakers and dates on request. A comprehensive program including clinical rounds and formal discussions, in-depth discussions of ambulatory and hospital patients, dermatopathology review, and seminars in basic science.

Dermatology PM 3 (also Nursing PN 8). Clinical nursing techniques in dermatology

Oct 2-3. Thurs-Fri, 8:30-5. \$90. (13 hours; 13 contact hours by the New York State Nurses Association and by the New Jersey State Nurses Association)

Eileen E. Leach, R.N., Jeannette E. Anders, R.N., Leonard C. Harber, M.D., and staff. Columbia-Presbyterian (Anthony N. Domonkos Conference Room, Vanderbilt Clinic 5-557).

Acquaints the professional nurse with skin, the largest organ of the body, and with dermatologic care. Lectures by the attending staff of the Department of Dermatology and the dermatology nurse specialists of the hospital review the structure, function, and terminology of the skin and specific disease entities. Common dermatoses as well as life-threatening skin diseases from infancy to adolescence included. Emphasis placed on nursing assessment and appropriate intervention. Opportunity for individualized instruction offered in six different seminars.

Genetics

Genetics PM 1. Annual meeting of the American Society of Human Genetics

Sept 24-27. Starts Sept 24, 2 p.m.; ends Sept 27, noon. \$65. Residents \$40. (22 hours)

Dr. Arthur A. Bloom, staff, and guest lecturers. The New York Hilton Hotel.

The 31st conference of the American Society of Human Genetics is intended to provide geneticists, both clinical and research, with current information on basic and applied research in human genetics. The course is a high-quality scientific meeting with four major educational components: (1) workshops, (2) symposia, (3) concurrent sessions of presentations of submitted papers, and (4) poster sessions.

Internal Medicine

Medicine PM 1. Internal medicine review course

Twenty-five sessions. Jan. 5 through June 22. Mon 5:30-7:30. \$250

For residents, interns, and fellows, \$100. (50 hours)

Chairman and staff. Columbia-Presbyterian.

Open to all physicians.

Clinical review of internal medicine, with emphasis on recent developments in the field. Lectures by members of the staff summarize the pathophysiology, diagnosis, and management of specific disease states as a preparation for board examinations in internal medicine.

Medicine PM 6. Combined clinic

Sept through May. Wed. 4:30-6. No fee. (1½ hours each session)

Dr. Elliott Osserman, staff, and guest lecturers from other medical centers.

Columbia-Presbyterian (Hanger Amphitheater, 8th floor, P&S).

Open to interested physicians, faculty members, and students. Conferences sponsored by the Department of Medicine to present new concepts in biological science and in clinical medicine and to emphasize their relevance to specific disease.

Medicine PM 7. Team rounds

July 1980 through June 1981. Th 4:30-5:30. No fee. (1 hour each session)

Chairman, staff, and guest lecturers. Columbia-Presbyterian (Hanger Amphitheater, 8th floor, P&S).

Open to interested physicians, faculty members, and students. Conferences sponsored by the Department of Medicine to highlight patient care, with emphasis on the current approach to diagnostic and therapeutic problems.

Medicine PM 8. Endocrine conference

Sept 9, 1980, through July 28, 1981. Tu 3:30-4:30. No fee. (1 hour each conference)

Dr. Andrew G. Frantz, associates, and guest lecturers. Columbia-Presbyterian (Atchley-Loeb Conference Room).

Designed for practicing internists with interests in endocrinology to enable them to improve their skills in diagnosis and treatment by being made aware of the most current and up-to-date criteria and methods in the field. Discussion of one or two topics in clinical endocrinology, sometimes accompanied by a case presentation. Topics include diseases of the pituitary, thyroid, parathyroid, adrenal, and pancreas glands, and the gonads, with most speakers drawn from those P&S faculty members with interests in endocrinology. The goal is to present and discuss current clinical management, as well as new advances in diagnosis and therapy of regularly encountered endocrine disorders.

Medicine PM 9. Endocrine seminar

Oct 3, 1980, through May 1, 1981. Fri 1-2. No fee. (1 hour each seminar)

Dr. Andrew G. Frantz, associates, and guest lecturers. Columbia-Presbyterian (Atchley-Loeb Conference Room).

Presentation of topics of research and clinical interest in general endocrinology. Presentation and discussion of new developments in research and of clinical interest in general endocrinology, aimed primarily at physicians eager to acquire a broader theoretical understanding of basic mechanisms which underlie functioning of the endocrine system in health and disease.

Medicine PM 10. Cardiology guest lecture series

Sept through May. One Mon each month, 4:30-5:30, dates to be announced.

No fee. (1 hour each lecture)

Drs. J. Thomas Bigger, Jr., and Edward B. Leahey, Jr., associates, and guest lecturers. Columbia-Presbyterian (Atchley-Loeb Conference Room).

Topics of interest to cardiologists, cardiac surgeons, radiologists, and others interested in cardiac physiology, pharmacology, anatomy, and pathology. Most of the lectures presented by guest lecturers.

Medicine PM 11 (and Pathology PM 8). Clinical pathological conference

Sept through May. Tu 5-6. No fee. (1 hour each conference)

Drs. Abbie I. Knowlton and Whitley Branwood, and associates in the Departments of Medicine, Pathology, and Radiology. Columbia-Presbyterian (Hanger Amphitheater, P&S 8-9).

The educational goal of the course is to further clinical teaching and understanding of pathological processes, to provide a unique opportunity to apply clinical judgment to a problem in depth, to weigh the usefulness of various diagnostic aids, the effectiveness of therapy against the natural history of the disease, and to have these measured in the light of pathological findings. Case material is drawn from patients, coming either to operation or autopsy, who were diagnostic problems. An abstract of the patient to be discussed, including the history, laboratory findings, and course, is furnished a week ahead of each session. Discussion is started by a clinician, who reviews the case, analyzes the data and, on the basis of his or her clinical judgment, discusses the diagnosis and management, followed by a radiologist who shows the pertinent films and discusses their interpretation. Finally, a pathologist presents the surgical or autopsy findings. The cases are selected to cover those aspects of disease under discussion concurrently in *Abnormal Human Biology 101S*.

Medicine PM 12. Seminars in out-patient medicine

Sept through June. Mon 12:30-1:30. No fee. (1 hour each seminar)

Drs. Michael M. Stewart and Carmen Ortiz-Neu, associates, and guest lecturers from other departments. Columbia-Presbyterian (Vanderbilt Clinic, Babies Board Room).

The Division of General Medicine of the Department of Medicine sponsors a weekly conference for its division members, house staff, medical students, and community physicians, with the purpose of expanding their knowledge in the management of common problems in ambulatory care and general internal medicine. Through its patient care activities in Vanderbilt Clinic the division serves a large and varied population in an urban setting. Conferences are constructed to use the expertise of specialists in internal medicine, surgery, pediatrics, psychiatry, neurology, public health, ophthalmology, and orthopedics to translate recent advances in medicine to the practical medical problems encountered in the out-patient setting. The internist or family practitioner attending the conferences acquires up-to-date knowledge on the management of such common out-patient problems as diabetes, hypertension, infectious diseases, and rheumatology. Through lectures, audio-visual presentations, and films, the physician learns to treat and/or refer patients with common, general internal medicine problems.

Medicine PM 13. Gastrointestinal grand rounds

July 1980 through June 1981. Mon 1-2. No fee. (1 hour each session)

Dr. Robert Glickman, associates, and guest lecturers. Columbia-Presbyterian (Atchley-Loeb Conference Room).

A weekly conference with in-depth discussions of major disease entities in liver disease and gastroenterology. Case presentations followed by discussions and review of the literature, providing an important review for the internist or gastroenterologist planning on taking the Board examinations in gastrointestinal problems for certification or recertification.

Medicine PM 15. Interdisciplinary oncology conference

Sept 5 through June 27. Fri 1-2. No fee. (1 hour each conference)

Drs. Rose Ruth Ellison and William H. Sherman, and members of the Departments of Medicine, Surgery, Neurology, Radiology, and Pathology. Columbia-Presbyterian (Vanderbilt Clinic, 14th-floor conference room).

Designed as a multidisciplinary effort by surgeons, medical oncologists, radiotherapists, and pathologists to present new advances in the etiology, evaluation, and treatment of specific malignancies, with special emphasis on the interdisciplinary approach to the cancer patient.

Medicine PM 17. Hematology conference

Sept 4 through June. Th 1:15-2:15. No fee. (1 hour each session)

Dr. Karen L. Kaplan, staff, and guest speakers. Columbia-Presbyterian (PH 9-137).

Weekly lectures by faculty and guest speakers on clinical and research topics of current interest in the field. Provides exposure of the faculty, fellows, residents and students to new research in hematology and offers clinical reviews of important and interesting diseases in the field.

Medicine PM 18. Newer knowledge of the irritable bowel

September 17. Wed 9-5. \$50. (7 hours)

Dr. Robert Glickman and guest lecturers. Columbia-Presbyterian (Alumni Auditorium).

Designed for physicians interested in up-to-date clinically relevant knowledge pertaining to the irritable bowel and related problems. Topics include: clinical aspects of the irritable bowel, myoelectric activity and colonic function, effects of stress and emotional disturbances, diet and colon cancer, endocrine and hormonal influences, dietary fiber, irritable bowel and diverticular disease, role of intestinal gas, and panel discussion on the irritable bowel syndrome.

Medicine PM 19. Prevention and management of acute infection in the hospital environment

Nov 10. Mon 8:30-4:30. Fee to be determined. (7 hours)

Dr. Harold C. Neu, staff, and guest lecturers. Columbia-Presbyterian (Alumni Auditorium).

Designed to expand physicians' knowledge about mixed infections and the use of various antibiotics. Topics include animal models of infections, gynecologic infections, respiratory infections, and others.

Medicine PM 100. Medical grand rounds at St. Luke's Hospital Center

Sept through June. Th 4:30-5:30. No fee. (1 hour each session)

Dr. Stanley Cortell, staff, and guest lecturers. St. Luke's Hospital Center (Sunderland Auditorium).

The goal is to maintain a broad general knowledge of internal medicine by attending physicians and house staff. Topics include cardiology, endocrinology-metabolism-nutrition, gastroenterology, hematology, infectious disease-allergy-immunology, nephrology, neurology, rheumatology, and pulmonary disease. Cases are selected to highlight new concepts of diagnosis and management in these subjects.

Medicine PM 101. Nephrology grand rounds at St. Luke's Hospital Center

Sept through June. Wed 2-3. No fee. (1 hour each session)

Dr. Stanley Cortell, staff, and guest lecturers. St. Luke's Hospital Center (Minturn 2-M206).

A review of advanced concepts in nephrology, directed toward medical students, house officers, and fellows, with a review and update for practicing nephrologists. It provides a multidisciplinary approach to evaluation and treatment of patients with renal disease, including pathological and radiological, as well as nephrological considerations. In-depth case presentations of the most interesting, complex clinical material drawn from the wide variety of consultations seen within the hospital, as well as additional case

material from the surgical renal transplant service, the clinics, the dialysis unit, and case material of the part-time nephrology attending staff, providing a broad-based review of the many varieties of patients with renal diseases, as well as acid-base and fluid and electrolyte disorders. Guest speakers enrich the program by covering aspects of nephrology of particular research or clinical interest and expertise to nephrologists.

Medicine PM 102. Gastrointestinal grand rounds at St. Luke's Hospital Center
Thursdays, Sept through June. Times to be announced. No fee. (1 hour each conference)

Dr. Peter R. Holt, members of the Departments of Medicine, Pathology, Radiology, and Pediatrics, and guest lecturers. St. Luke's Hospital Center (Surgical Conference Room, Muhlenberg 2).

To provide training in the development of diagnostic skills, including the use of radiology, and pathology and skills in management of patients with gastrointestinal disorders, using the medium of patient presentations. An overall list of important diseases to be covered is prepared on an annual basis. Discussion of the pathophysiological basis of disease, presentation of radiological and pathological data relevant to each patient, and discussion of medical and surgical therapy.

Medicine PM 103. Clinical cardiology conference
Sept through June. One day a week, dates to be announced, 1-2. No fee. (1 hour each conference)

Dr. Harvey Kemp and staff. St. Luke's Hospital Center.

Complex clinical problems presented and discussed with a view toward enhancing knowledge in cardiology.

Medicine PM 104. Endocrine-metabolic conference at St. Luke's Hospital Center

Sept through June. Wed 12:30-1:30. No fee. (1 hour each conference)

Dr. F. Xavier PiSunyer and staff. St. Luke's Hospital Center (Traverse Building, Conference Room).

Presentation and discussion of cases in endocrinology and metabolism, with an in-depth review of the literature on etiology, pathology, diagnostic work-up, and therapeutic indications. Designed for training house staff and endocrinology fellows, as well as for the continuing education of the attending staff.

Medicine PM 105. Hematology-oncology conference at St. Luke's Hospital Center

Sept through June. Tu 3-4. No fee. (1 hour each session)

Dr. Jonas M. Goldstone and staff. St. Luke's Hospital Center (Hematology Library).

A review of current concepts and pathophysiology of malignancies and hematological disorders including the following topics: hemoglobinopathies, genetic control of protein formation, current therapy of lymphoma and leukemia, coagulopathies, hemolytic anemias, therapy of breast cancer and gynecologic malignancies.

Medicine PM 106. Pulmonary conference at St. Luke's Hospital Center

Sept through June. Mon 12-1. No fee. (1 hour each conference)

Dr. A.L. Loomis Bell and staff. St. Luke's Hospital Center (Bishop Library, Muhlenberg 3).

Weekly review of a wide range of topics designed to regularly review and update important subjects in pulmonary medicine. Clinical material utilized as foundation for teaching physiological basis of chest diseases. This conference forms the basis of the academic program for training pulmonary fellows and provides introduction and updating of the subspecialty for students, residents, and attending physicians.

Medicine PM 107. Gastrointestinal grand rounds at St. Luke's Hospital Center
Sept through June. Dates to be announced. 12-1:30. No fee. (1½ hours each session)

Dr. Peter R. Holt and members of the Departments of Medicine, Pathology, Radiology, Pediatrics, and guest lecturers. St. Luke's Hospital Center (Muhlenberg 2, Surgical Conference Room).

A list of important diseases to be covered is prepared on an annual basis. Provides training in the development of diagnostic skills, including the use of radiology, pathology, and skills in management of patients with gastrointestinal disorders and liver disease, using patient presentations. Discussion of the

pathophysiological basis of disease, presentation of radiological and pathological data relevant to each patient, and medical and surgical therapy. A useful review for the internist or gastroenterologist planning to take the Board examinations in gastrointestinal problems for certification or recertification.

Medicine PM 201. Alcoholism: medical and therapeutic management of the alcoholic patient

One week, beginning the first Monday of each month, Sept through June. Mon-Fri, 9-5. \$150 (no fee for residents and medical students). (30 hours each week). Registrants may take the second week of *Medicine PM 202* (see below) at no additional tuition cost.

Drs. Anne Geller (course director), Thomas C. Scanlan, and associates. The Roosevelt Hospital (Smithers Alcoholism Center).

Advance enrollment recommended. Limit of six physicians per training period. Open to all physicians, including house staff, and, by special arrangement, to medical students.

A one-week didactic and clinical exposure to alcoholism and the alcoholic patient. Didactic material covers etiology and epidemiology; treatment of the alcohol withdrawal syndrome and the pharmacology of alcoholism; neurology of alcoholism; psychodynamics of the alcoholic patient; confrontational techniques and therapeutics involved in counseling; structure and dynamics of short-term care in an alcoholism rehabilitation unit; social casework with the family of the alcoholic. The participating physician is integrated into the clinical activities of a multidisciplinary treatment team which include bedside observation of counselor-therapist/patient interaction and mechanisms of medical management of the detoxifying patient. A limited number of partial tuition scholarships for physicians, residents, and interns and full tuition scholarships for medical students are made possible by a grant from the National Institute on Alcohol Abuse and Alcoholism.

Medicine PM 202. Alcoholism: medical and therapeutic management of the alcoholic patient, including supervised individual clinical experience

Two to four weeks, beginning the first Monday of each month, Sept through June. Mon-Fri, 9-5. \$150 for first two weeks; \$200 for three weeks; \$250 for four weeks (residents: no fee for first two weeks, \$50 each for third and fourth weeks; no fee for medical students). (30 hours each week).

Drs. Anne Geller (course director), Thomas C. Scanlan, and associates. The Roosevelt Hospital (Smithers Alcoholism Center).

Prerequisite: *Medicine PM 201*.

Advance enrollment recommended. Limit of six physicians per training period. Open to all physicians, including house staff, and, by special arrangement, to medical students.

Designed for the physician who seeks extended clinical experience with the alcoholic patient in the settings of a multifaceted treatment facility, i.e., detoxification service, residential rehabilitation unit, and outpatient service. First week follows outline as described above under *Medicine PM 201*, with second week spent in the Smithers Center Rehabilitation Unit among a group of recently abstinent alcoholic patients. In interactions with patients, the physician has the opportunity to learn more about alcoholics in the early recovery process as they react to information and confrontation in regard to their illness. The final two weeks of training take place in the Detoxification Unit and Outpatient service of the Smithers Center. Supervised clinical experiences here emphasize diagnosis, medical management, and formulation with the inpatient of a therapeutically sound post-detox discharge plan and the dynamics of group treatment of the outpatient. A limited number of partial tuition scholarships for physicians, residents, and interns and full tuition scholarships for medical students are made possible by a grant from the National Institute on Alcohol Abuse and Alcoholism.

Medicine PM 204. Medical staff conference at The Roosevelt Hospital

Sept through June. Two Fridays each month, 8-9 a.m. No fee. (1 hour each conference)

Dr. A. Gregory Jameson, staff, and guest lecturers.

In the course of any given two-year cycle the nine subspecialties within the field of internal medicine are given complete and in-depth coverage.

Medicine PM 205. Medical grand rounds at The Roosevelt Hospital

Sept 1980 through June 1981. Wed 3:15-4:15. No fee. (1 hour each conference)

Dr. A. Gregory Jameson, staff, and guest lecturers.

In the course of any given two-year cycle the nine subspecialties within the field of internal medicine are given complete and in-depth coverage.

Medicine PM 206. Hematology conference at The Roosevelt Hospital Aug 1980 through July 1981. Tu 4-5. No fee. (1 hour each conference)
Dr. Harvey J. Weiss, associates, and guest lecturers. The Roosevelt Hospital (Medical Library, 4th floor).

Weekly Division of Hematology Conference attended by hematology attending staff, fellows, house staff, and students. Selected topics on hematology presented with illustrative case material. Special lectures by outside speakers five times a year. Combined meetings with the Department of Pathology held 4 to 6 times a year. A 10- to 15-minute period at each conference set aside for showing diagnostic slides of peripheral blood and bone marrow. Regular attendance at these conferences should enable the general internist to answer correctly the hematology questions on the Boards in Internal Medicine and to prepare candidates for the Hematology Boards. Regular attendance should also enable the general internist to develop the facility for interpreting blood smears in clinical practice.

Medicine PM 207. Review of procedures used in the practice of allergy Nov 5-7. Wed-Fri, 8-6. \$250. Residents \$125. (22 hours)

Dr. Michael H. Grieco, staff, and guest lecturers. The New York Academy of Medicine. Cosponsored by The American Academy of Allergy and The R.A. Cooke Institute of Allergy of the St. Luke's-Roosevelt Hospital Center.

A critical review of diagnostic and therapeutic procedures utilized in the office practice of allergy. Topics include practical aspects of aerobiology and *in vitro-in vivo* assays for IgE antibodies, pulmonary function, provocation techniques for bronchial asthma and otolaryngological procedures, evaluation of orally induced allergic reactions, occupational asthma, and common procedures in clinical immunology.

Medicine PM 208. Tumor conference at The Roosevelt Hospital July 1980 through June 1981. Fri 2-3. No fee. (1 hour each session)

Dr. David Carroll and members of Departments of Medicine, Surgery, Radiotherapy, Pathology, Radiology and Nuclear Medicine of the St. Luke's-Roosevelt Hospital Center (Winston Building, Pathology Conference Room).

Members of the House Staff and Attending Staff cover special oncologic cases which present problems in diagnosis or management. A discussion of the relevant topic follows. Exposes the attending and resident staff of the hospital, as well as medical students, to clinical oncology increasing clinical competence in the management of malignancy.

Medicine PM 209. In vitro testing of the aminoglycosides

Date and time to be announced. No fee. (4 hours)

Dr. Michael H. Grieco, staff, and guest lecturers. St. Luke's-Roosevelt Hospital Center (Winston Conference Room).

Directed toward physicians and microbiologists who are involved with *in vitro* aminoglycoside testing and administration. Two formal presentations are given: (1) aminoglycoside resistance, and (2) aminoglycoside testing procedures. A question-and-answer period follows.

Medicine PM 300. Medical subspecialty lecture series at the Harlem Hospital Center

July 2, 1980, through June 30, 1981. TuThFri, 11:30-12:30. No fee. (1 hour each lecture)

Dr. Gerald E. Thomson and staff. Harlem Hospital Center (M.L. King Pavilion, 2nd-floor auditorium).

Structured series from the various medical subspecialty disciplines which present pertinent information and new developments, delivered by the section chiefs and members of their staff. Primary interest is with clinical problems of diagnosis and management.

Medicine PM 301. Medical grand round lectures at the Harlem Hospital Center Sept 1980 through June 22, 1981. Mon 11:30-12:30. No fee. (1 hour each lecture)

Dr. Gerald E. Thomson, associates, and guest lecturers. Harlem Hospital Center (M.L. King Pavilion, 2nd-floor auditorium).

Distinguished clinicians and clinical investigators from various university medical centers lecture on newer concepts in medicine in the areas of biochemistry, pathophysiology, diagnosis, and therapeutics. Clinical relevance of developments in basic sciences.

Medicine PM 302. "State of the Art" lecture series at the Harlem Hospital Center

July and August, 1980. Mon and Wed, 11:30-12:30. No fee. (1 hour each conference)

Dr. Gerald E. Thomson and staff. Harlem Hospital Center (M.L. King Pavilion, 2nd-floor auditorium).

For medical students, house staff, and attending staff. Subspecialty chiefs and their teaching staff members review the common medical problems of the medical disciplines encountered in a large urban hospital. Basic principles of pathophysiology reviewed together with the clinical aspects.

Medicine PM 303. Update in clinical cardiology: diagnostic procedures

March through April 1981. Wed 6-8 pm. No fee. (2 hours each session)

Dr. Jay Brown and associates. Harlem Hospital Center (M.L. King Pavilion, Room 15113).

Primarily a demonstration of the diagnostic tests available to primary care physicians which aid in establishing differential diagnoses and approaches to management of patients with common cardiovascular diseases, conducted in workshop setting. In addition, two sessions are devoted to training in basic life support techniques following the guidelines of the American Heart Association.

Medicine PM 304. Primary care update for the practicing physician

Sept 1980 through June 1981. One Saturday each month, 8:30-10:30. No fee. (2 hours each lecture)

Dr. Gene-Ann Polk and staff. Harlem Hospital Center (M.L. King Pavilion, auditorium).

Topics of particular interest to members of the part-time staff and community practitioners include management of the diabetic patient, the hypertensive patient, the asthmatic child, infant feeding, immunization update, alcoholism, contraception, hormones and cancer, office surgery, acute abdomen, soft tissue tumors, and cigarettes and cancer.

Medicine PM 305. Topics in emergency medicine at the Harlem Hospital Center

July 1980 through June 1981. Th 8:30-9:30. No fee. (1 hour each session)

Dr. Diane M. Sixsmith and staff. Harlem Hospital Center (Adult Emergency Room).

For medical students, house staff, physicians' assistants, and attending staff who work in or rotate through the emergency room. A review of the common and uncommon problems in emergency medicine, with emphasis on diagnosis, emergency management, and disposition. Enables emergency room professionals to provide initial care and management for all emergencies.

Medicine PM 306. Advanced cardiac life support providers course at the Harlem Hospital Center

July 1980 through June 1981. Dates and times to be announced. No fee. (12 hours)

Dr. Diane M. Sixsmith and staff. Harlem Hospital Center (Martin Luther King Pavilion, Room 6101, 6130).

To train emergency department and critical care unit professionals in advanced life support according to the guidelines of American Heart Association. Practical and theoretical training in airway management, arrhythmia recognition, defibrillation, intravenous access, and drug therapy for cardiorespiratory arrest patients provided with a review of basic cardiopulmonary resuscitation. To receive certification, registrants must demonstrate the practical and written mastery of techniques in the areas cited above.

Medicine PM 400. Medical grand rounds at Overlook Hospital

First, second, and fourth Friday of each month, 11:30-12:30, dates to be announced. No fee. (1 hour each session)

Drs. Michael Bernstein and M. Herald, associates, and guest lecturers. Overlook Hospital (auditorium, 5th floor).

Weekly presentation except for the third Friday, which is the Medical Department business meeting. Conferences include a monthly guest speaker and subspecialty presentations by section on an assigned rotational basis. Over the course of a year a wide variety of topics in internal medicine are presented.

Neurological Surgery

Neurological Surgery PM 1. Modern concepts in neurological surgery
Sept through June. Th 3:30-5. No fee. (1½ hours each conference)
Drs. Edward B. Schlesinger and John Antunes, staff, and guest lecturers. Columbia-Presbyterian (New York Neurological Institute, Zabriskie Auditorium).
 Seminars on basic neurosurgical topics. Topics selected for in-depth review of concepts of pathophysiology, diagnosis, and treatment.

Neurology

Neurology PM 1. Review course in neuroanatomy, neurophysiology, and neuropharmacology
Nov 1 through Dec 13; Jan 10 through April 4. Sat 9:30-12. \$420. Residents \$210. (42 hours). To be given in alternate years with *Neurology PM 5*.
Dr. Edgar Housepian and staff. Columbia-Presbyterian.

A review of basic neuroscience for residents in neurology, neurosurgery, and psychiatry, and for graduate physicians who are preparing for their respective board examinations. Clinical correlations stressed while reviewing neuroanatomy, neurophysiology, and neuropharmacology.

Neurology PM 2. Neurology grand rounds
Sept through June. Wed 10-11. No fee. (1 hour each session)
Dr. Lewis P. Rowland, staff, and guest lecturers. Columbia-Presbyterian (Neurological Institute, Zabriskie Auditorium).

Introduction to current concepts for students and house officers and provision of continuing education for practicing neurologists. Emphasis on scientific basis of clinical neurology. A different topic of current neurological interest presented each week. A case presentation indicates the problem. Analysis of pertinent laboratory data is presented by a radiologist, physiologist, biochemist, or pathologist, and the current state of the problem is then discussed by appropriate experts from P&S or by guests. One session each month devoted to clinical-pathological conference.

Neurology PM 3. Neurology conference
July 1980 through June 1981. July and Aug. MonWedFri; Sept through June, Mon and Fri, 11-12. No fee. (1 hour each conference)
Dr. Lewis P. Rowland and staff. Columbia-Presbyterian (Neurological Institute, Zabriskie Auditorium).

A comprehensive and in-depth review of modern clinical neurology and its scientific basis. Introduces neurology residents to clinical neurology and updates the knowledge of practicing neurologists and internists. Experts in major subdivisions of neurology present topics in cerebrovascular disease, head trauma, neurologic oncology, extrapyramidal disease, neurologic infections and neurovirology, demyelinating disease, inherited metabolic disorders, muscle disease, epilepsy, peripheral neuropathy, and motor neuron disease.

Neurology PM 4 (also Pediatrics PM 4). Pediatric neurology conference
July 1980 through June 1981. Tu 11-12. No fee. (1 hour each conference)
Dr. Darryl C. DeVivo, staff, and guest lecturers. Columbia-Presbyterian.

Topics relevant to pediatric neurology presented and discussed: neurological emergencies, coma, cerebrovascular disease, headache, dementia, aphasia, neuro-oncology, head trauma, CNS infections, neurovirology, neuro-ophthalmology, neuro-epidemiology, epilepsy, demyelinating disease, lipid storage diseases, neurological manifestations of systemic disease, cerebellar disease, peripheral neuropathy, neuromuscular disease, and the diseases of the cord.

Neurology PM 5. Review course in functional neuroanatomy, neuropathology and pathophysiology

To be given in alternate years with *Neurology PM 1*. Not given in 1980-1981.
Drs. Edgar M. Housepian, Philip E. Duffy, James F. Hammill, John P. Reuben, and associates. Columbia-Presbyterian.

Correlative review of functional anatomy, pathology, and pathophysiology of the nervous system. A review of basic neuroscience for residents and staff in neurology, neurosurgery, and psychiatry in preparation for board examinations.

Neurology PM 6. Neuromuscular disease update

Sept 25-27. Thurs-Sat, 9-5. \$150. Residents \$100. (15½ hours)

Drs. Lewis P. Rowland and Salvatore DiMauro, staff, and guest lecturers. Columbia-Presbyterian (Alumni Auditorium).

Presentations of current knowledge in the rapidly expanding field of neuromuscular disease, intended for neurologists, general practitioners, and rehabilitation personnel. A comprehensive review of neuromuscular diseases (spinal muscular atrophy, peripheral neuropathies, myasthenia gravis, muscular dystrophies, metabolic myopathies, polymyositis) covering differential diagnosis, known or suspected pathogenetic mechanisms, and therapeutic approaches. Discussions of disease processes preceded by presentations reviewing current knowledge of normal muscle structure and function.

Neurology PM 7. The clinical evaluation of muscle disorders and neurobehavioral disorders

July 1, 1980, through June 30, 1981. Tu 4-5. (1 hour each session)

Dr. Lewis P. Rowland and staff. Neurological Institute (Zabriskie Auditorium).

Educational activity for neurology residents and staff members in the recognition and differential diagnosis of movement disorders and neurobehavioral phenomena. Patients with movement disorders, such as Parkinson disease, Huntington disease, Tardive Dyskinesia, or patients with neurobehavioral syndromes, such as aphasia and apraxia, are presented along with a description of the clinical phenomena. Discussions on etiology, differential diagnosis, laboratory evaluation and management.

Neurology PM 8. Clinical evaluation of diseases of muscle and peripheral nerves

July 1, 1980, through June 30, 1981. Wed. 4:30-5:30. (1 hour each session)

Dr. Lewis P. Rowland and staff. Neurological Institute (Zabriskie Auditorium).

Patients with diseases of muscle or nerve, such as dermatomyositis, myasthenia gravis, and amyotrophic lateral sclerosis are examined, followed by a discussion of the differential diagnosis, appropriate laboratory evaluation and management. Pertinent clinical and basic research issues also covered. Instructs neurology residents and staff in the diagnosis and management of these diseases and fosters free exchange of ideas among members of the Muscle Disease Group about the diagnosis and management of particular patients.

Neurology PM 9. Neuropathology gross conference

July 1, 1980, through June 30, 1981. First and third Thursday of each month 4-5. No fee. (1 hour each conference)

Drs. Lewis P. Rowland and Philip E. Duffy, and staff. Columbia-Presbyterian (P&S 14-440).

To acquaint the participants with the gross pathology of diseases of the central nervous system, to review the typical clinical features of the diseases, and to provide an ongoing review of clinically relevant neuroanatomy. At each session one or more interesting cases, recently on the Neurology Service, are presented by the Chief Resident in neurology, and the Chief Resident in neuropathology reviews the gross pathology. Neurologists and neuropathologists with particular interest in the case discuss the general clinical and pathological features of the diseases represented.

Neurology PM 100 (also Pathology PM 100). Neuropathology conference at St. Luke's Hospital Center

Fourth Friday of each month, 12-1. No fee. (1 hour each conference)

Drs. Ray Gambino and Donald G. Rawlinson, staff, and guest lecturers. St. Luke's Hospital Center (Pathology Library).

A demonstration of the gross and microscopic features of interesting neurosurgical biopsies and autopsies, with clinical and radiographic correlation provided by neurology, neurosurgery, and neuroradiology attending staffs.

Neurology PM 101. Neurology grand rounds

July 1980 through June 1981. Fri 12-1. No fee. (1 hour each session)

Drs. Stanley Cortell and Carl W. Braun, staff, and guest lecturers. St. Luke's Hospital Center (Sunderland Auditorium).

Introduces students and house officers to current concepts in clinical neurology and provides education for staff neurologists in areas of diagnosis and management. Discussions and case presentations by neuroradiology, neuropathology, neurosurgery, and neurology staff.

Neurology PM 106S. Neural science course

Sept 2 through Nov 14, 1980. Mon-Fri 12-1; Th 1-3. Fee to be determined. (70 hours)

Dr. Eric R. Kandel and staff. Columbia-Presbyterian (Health Science Center, Room 401; Black Building, Room 306).

Enrollment limited.

An integrated approach to the neural sciences including some of the major issues encountered in the clinical practice of neurology and psychiatry in terms of basic neuroanatomy, neurochemistry, and other related basic sciences.

Nutrition

Nutrition PM 1. Symposium on adolescent nutrition

Nov 20-21. Th 8:30-5:30, Fri 1-5:30. Fee to be determined. (11 hours)

Dr. Myron Winick, associates, and guest lecturers. Sheraton Center (Grand Ballroom), New York City.

Keynote address by Dr. James Tanner. Topics include: changes in body composition; nutritional requirements of adolescents; dietary practices of adolescents; early nutrition and adolescent behavior; adolescent pregnancy and lactation; nutrition and athletics; iron and zinc deficiencies, Keshan disease; anorexia nervosa; adolescent obesity; chronic bowel disease; and new concepts in atherosclerosis of adolescents.

Nutrition PM 101F. Introduction to nutrition

May 1 through June 3, 1981. Schedule available. \$285. (19 hours)

Dr. Myron Winick and staff. Columbia-Presbyterian (Health Sciences Center, Room 401).

Enrollment limited.

A series of lectures defining the elements of nutrition essential for good health and the importance of nutrition in health and disease states.

Nutrition PM 8200y. Growth and development

Jan 22 through April 22, 1981. Mon and Wed 10-12. \$380. (48 hours)

Dr. Myron Winick and staff. Columbia-Presbyterian (Black Building, Room 201).

Enrollment limited.

The general aspects of normal human growth and development considered from viewpoints of physical growth, cellular growth and maturation, and adjustments made at birth, as well as the impact of altered nutrition on these processes. Prenatal and postnatal malnutrition, the role of hormones in growth, relationships between nutrition and disease in such areas as anemia, obesity, infection, and carbohydrate absorption included.

Nutrition PM 8207. Clinical nutrition

Jan 23 through May 9, 1981. Tu and Th 1:30-3:30. \$380. (52 hours)

Dr. F. Xavier PiSunyer and staff. Columbia-Presbyterian (Health Sciences Center, Room 305).

Enrollment limited.

A discussion of pathology, symptomology, and clinical manifestations with case presentations whenever possible. A laboratory assessment of each condition, and a discussion of the principles of nutritional intervention for therapy and prevention included.

Obstetrics and Gynecology

Obstetrics and Gynecology PM 1. Review course in obstetrics and gynecology

Five days, Oct 20-24. Mon-Fri, 8-5:30. \$375. Residents, \$200. (37 hours; approved for 35 cognates by the American College of Obstetricians and Gynecologists and for 33½ elective hours by the American Academy of Family Physicians) Dr. Raymond L. Vande Wiele, associates, and guest lecturers from other institutions. Columbia-Presbyterian.

Includes a survey of the major clinical and pathological problems pertaining to the female reproductive system. Emphasis on the diagnosis and management of the obstetrical and gynecological disorders,

including infertility, endocrine problems, and malignant diseases, in the light of modern advances in basic knowledge and clinical practice. Review of gynecologic pathology. The course is divided as follows: gynecologic oncology, perinatal medicine, gynecology and obstetrics, reproduction, control, behavior, and endocrine disorders. Each lecture followed by a brief discussion.

Obstetrics and Gynecology PM 4. Cutaneous vulvar and vaginal diseases
May 14-16, 1981. Thurs-Sat, 8:30-5:30. \$375. Residents \$150. (18 hours;
approved for 18 cognates by the American College of Obstetricians and Gynecologists; 18 prescribed hours by the American Academy of Family Practice)
Drs. Harold M.M. Tovell (gynecology), Alex W. Young (dermatology), and guest
lecturers. The New York Academy of Medicine.

For the practicing dermatologist, gynecologist, and family practitioner. An interdisciplinary faculty composed of gynecologists, dermatologists, and pathologists discuss the diagnosis and management of the common dermatoses, and bacterial, parasitic, and viral infections that affect the vulva. Sexually transmitted diseases also discussed. An in-depth review of vulvar dystrophies, premalignant, and malignant conditions, with emphasis on pertinent diagnostic methods and specific therapeutic regimens.

Obstetrics and Gynecology PM 5. Endocrinology and infertility
Dates and times to be announced. (24 hours)
Drs. Raymond L. Vande Wiele, Ralph Jewelewicz, and David L. Rosenfeld. Co-
lumbia-Presbyterian.

Provides a review, for the practicing obstetrician and gynecologist, of reproductive endocrinology-infertility for the management of the infertile couple. Didactic presentation of each topic followed by case presentations with student participation. Emphasis on the clinical aspects of reproductive endocrinology. Topics include embryology of the reproductive tract, syndromes of genital ambiguities, disorders of puberty, physiology of the menstrual cycle, menopause, amenorrhea, pituitary tumors, hirsutism, induction of ovulation, endocrinology of pregnancy, and infertility.

Obstetrics and Gynecology PM 6. Reproductive endocrinology lecture series
Sept through June. Th 1-2. No fee. (1 hour each lecture)
Dr. G. Jagiello, associates, and guest lecturers. Columbia-Presbyterian (Black
Building, Room 1615).

Seminars on research topics dealing with reproductive processes. Twice a month, the speaker is a guest from another institution in the U.S. or abroad, who presents an up-to-date "state of the arts" lecture. The remaining speakers are members of the department or of the medical school who report on their own research projects. The goal of the series is to present the current status of research in the field and a survey of important developments in reproduction.

Obstetrics and Gynecology PM 7. Sloane Hospital Alumni Day scientific
program

Date and time to be announced. No fee. (5 hours)
Dr. Raymond L. Vande Wiele, associates, and guest lecturers. Columbia-Presby-
terian.

An annual scientific meeting for the alumni of the Sloan Hospital for Women. The educational objective is to impart to practicing obstetricians and gynecologists vital new information on endogenous and exogenous factors influencing human reproduction which can then be applied to clinical practice.

Obstetrics and Gynecology PM 8. Gynecology endocrinology conference
Sept through June. Tu 4:30-5:30. No fee. (1 hour each conference)
Dr. Ralph Jewelewicz, associates, and guest lecturers. Columbia-Presbyterian
(Black Building, Room 1615).

Discussion of challenging problems encountered in gynecological endocrinology. The primary purpose is in-depth discussion for the teaching of fellows, residents, and medical students. Conference also serves in a consultative capacity for the attending staff involved in gynecological endocrinology at Presbyterian Hospital and affiliated hospitals. The cases presented vary widely and include infertility, endocrine and genetic problems, male fertility problems, and neuroendocrine problems. Experts in other disciplines such as genetics, general endocrinology, neurology, neurosurgery, and radiology also make presentations. Primarily a clinical conference to promote excellence in diagnosis and management of gynecologic endocrinology

Obstetrics and Gynecology PM 9. Contraception: issues and controversies
Sept 8-9. Mon-Tu, 9-5. \$45. (14 hours)

Dr. Allan Rosenfield, associates, and guest lecturers. Columbia-Presbyterian.

Postgraduate seminar for physicians, nurses, and allied health professionals involved in the provision of family planning services. Participants obtain the latest information on fertility control and contraception, including potential medical problems, complications, indications and contraindications, effectiveness, current legal controversies, informed consent, and the use of paramedical and counseling personnel.

Obstetrics and Gynecology PM 10. Staff conference in obstetrics and gynecology

Sept through June. Th 3-4. No fee. (1 hour each conference)

Dr. Raymond L. Vande Wiele and staff. Columbia-Presbyterian (Sloane Amphitheater, P&S 16-407).

This and *Obstetrics and Gynecology PM 11* are the principal formal teaching endeavors of the department. Pertinent clinical materials offered to teach the practicing and student clinician the very best in the art and science of the practice of clinical obstetrics and gynecology. Presentations vary widely and include patient presentation, management of problems, investigative evaluation, and the statistical performance of various divisions of the department. Although newer ideas and concepts in the practice of clinical medicine may be presented, this activity deals primarily with promoting excellence in clinical obstetrics and gynecology. Open discussion, criticism, and debate enrich the instructional process. Concepts and ideas overlapping with other departments often bring members of these departments to this series for their ideas and concepts in the best of clinical practice.

Obstetrics and Gynecology PM 11. Obstetrics and gynecology staff conference lecture series

Sept through June. Th 4-5. No fee. (1 hour each conference)

Dr. Raymond L. Vande Wiele, staff, and invited guest lecturers. Columbia-Presbyterian.

This and *Obstetrics and Gynecology PM 10* are the principal formal teaching endeavors of the department. Threefold aim of series: (1) to keep the practicing scientist and clinician abreast of current and advanced trends in reproduction and care of the female; (2) to add additional core and theoretical structure to student resident and fellow teaching; and (3) to demonstrate to medical students and other health provider students the state of the art of this discipline. National and international authorities make presentations on pertinent topics relating to reproduction and care of the female. Core reproduction and gynecology covered, as well as more proliferable theoretical and scientific aspects of practical, clinical, and theoretical obstetrics and gynecology. Original investigators from this department and from other departments present material during the development or the early application of the investigative work to obstetrics and gynecology.

Obstetrics and Gynecology PM 14. Annual meeting of the North American Obstetrical and Gynecologic Society

Sept 15. Mon 8:45-12:30. No fee. (3½ hours)

Dr. Equinn W. Munnell and staff. Columbia-Presbyterian (P&S 16-407).

An informative review of aspects of obstetrics and gynecology including meiosis in human reproduction, intrauterine fetal respiratory movement, fetal monitoring, uterine abnormalities in D.E.S. progeny, and the relationship of Herpes Simplex Virus Type 2 to cervical neoplasia.

Obstetrics and Gynecology PM 100. Hysteroscopy

One-day course given several times a year at St. Luke's Hospital Center. 8:30-4. \$150. (7 hours) Approved for 7 cognates by the American College of Obstetricians and Gynecologists.

Dr. Robert S. Neuwirth and staff. St. Luke's Hospital Center (Women's Hospital Conference Room, Room 217A).

Eighteenth annual course, open to specialists. A review of basic hysteroscopic techniques, with emphasis on diagnostic and therapeutic uses and on safety. Part I (unlimited enrollment): didactic presentations on hysteroscopy (using Dextran), use of carbon dioxide in hysteroscopy, and office hysteroscopy techniques shown by videotape. Part II (enrollment limited to 20; registrants for Part II must take Part I): O.R. cases and practical workshop on specimens.

Obstetrics and Gynecology PM 200. Grand rounds staff conference at The Roosevelt Hospital

Sept through June. Wed 9-10. No fee (1 hour each session)

Dr. Thomas F. Dillon, staff, and guest lecturers. St. Luke's-Roosevelt Hospital Center (Winston Conference Room).

For the practicing physician and resident, an update of new concepts in obstetrics and gynecology. Presentations vary widely and include clinical conferences, quarterly complications conferences, and noted guest speakers. On a quarterly basis, the department hosts the Combined Columbia Perinatal Network Conference. Statistical performances of the various divisions of the department are presented on an annual basis. Open discussion included.

Obstetrics and Gynecology PM 300. Weekly conference of Department of Obstetrics and Gynecology at the Harlem Hospital Center

July 1980 through June 1981. Wed 3-4. (1 hour each conference)

Dr. Solan Chao, staff, and guest lecturers. Harlem Hospital Center (Room 4153).

Obstetrics and Gynecology PM 300 and PM 301 represent the formal teaching conferences of the department. Clinical materials of special teaching value covering every aspect of the field are selected for presentation, discussion, and criticism.

Obstetrics and Gynecology PM 301. Staff conference and lecture series in obstetrics and gynecology at the Harlem Hospital Center

Sept through June. Wed 4-5. No fee. (1 hour each lecture)

Dr. Solan Chao, staff, and guest lecturers. Harlem Hospital Center (Martin Luther King Pavilion-Room 4153).

Obstetrics and Gynecology PM 300 and PM 301 represent the formal teaching conferences of the department. Clinical materials of special teaching value covering every aspect of the field are selected for presentation, discussion, and criticism. Course incorporates investigative advances in science and medicine into clinical practice with a formal review of all aspects of the core curriculum for obstetrics and gynecology. Includes information from the basic sciences and other clinical specialties. Viewpoints from respected clinical and academic figures outside the institution are presented throughout the course of the year.

Ophthalmology

Ophthalmology PM 1. Eleventh annual meeting of the Edward S. Harkness Eye Institute: symposium on the optic nerve

Oct 9-10. Thurs-Fri, 8:30-5. \$200. ESHEI alumni \$100; residents \$100. (14 hours)

Drs. Charles J. Campbell and Myles M. Behrens, staff, and guest lecturers including David E. Cogan, M.D. (second Algernon B. Reese Lecturer). Columbia-Presbyterian (Alumni Auditorium).

A review of the major aspects of optic nerve disease by experts in the field. Topics include: anatomy, physiology, and pathology of the optic nerve; compressive nerve syndromes with radiological evaluation and surgical decompressive techniques; papilledema; congenital anomalies; hereditary, toxic, medical, and ischemic neuropathies; and glaucomatous optic atrophy.

Ophthalmology PM 4. Continuing medical education program for ophthalmologists, 1980-1981

Five Saturdays, 9-4:30. Dec 6: Eye disease recognition management for all physicians; Jan 10: Cornea and external disease; Feb 7: Ocular and adenexal trauma; Mar 7: Ocular therapy; April 4: Pediatric ocular disease. \$85. Residents \$20. (7 hours)

Dr. R. Linsy Farris, staff of the Edward S. Harkness Eye Institute, and guest lecturers. Hammer Health Sciences Building (Amphitheater 401).

Comprehensive continuing medical education courses on the practical aspects of eye disorders designed for the general ophthalmologist. Includes a review of advances in basic research, with emphasis on the use of this new information in clinical diagnosis, specific therapy, and follow-up management of clinical problems.

Ophthalmology PM 6. Ophthalmology seminars

Oct through April. Tu 5-6. No fee. (1 hour each seminar)

Drs. Charles J. Campbell and R. Linsy Farris, staff of the Edward S. Harkness Eye Institute, and guest lecturers. Columbia-Presbyterian.

Provides ophthalmologists, residents, and allied health personnel with current information as well as reviews in all subspecialty areas in ophthalmology. A variety of ophthalmological problems covered.

Ophthalmology PM 7. Ophthalmology grand rounds

Oct 2 through May 28. Th 4:30-6. No fee. (1½ hours each conference)

Drs. Charles J. Campbell and R. Linsy Farris, and staff of the Edward S. Harkness Eye Institute. ESHE Institute (7th-floor amphitheater).

To keep ophthalmologists, residents, and allied health personnel abreast of recent developments in the management of clinical problems in ophthalmology. Past methods of management reviewed with the development of basic science fundamentals important in the management of clinical problems. At each grand round, attending and resident staff convene with interesting patients on the seventh floor outside the auditorium of the Edward S. Harkness Eye Institute. Each session chaired by a different attending staff member and a theme selected for each grand round in the specialty interest of the individual leading the meeting. Patients are seen prior to grand rounds, and the cases are presented for discussion and opinions of experts in the field particular to the individual patient. A section on pathology uses histopathologic photomicrographs of interesting cases and pathological phenomena. A presentation by a resident usually takes place on some interesting aspect of the subspecialty under consideration on that particular day.

Ophthalmology PM 100. Weekly ophthalmology lectures at the St. Luke's-Roosevelt Hospital Center

Sept through June. Mon 5-6. No fee. (1 hour each lecture)

Dr. James C. Newton, staff of the St. Luke's-Roosevelt Hospital Center, and guest lecturers. St. Luke's-Roosevelt Hospital Center (Clark 6-Orthopedic Conference Room).

Weekly lectures are part of the residency training program. Aim is to broaden the teaching responsibilities of the Attending Staff and to have guest speakers. Topics include ocular and orbital advances in CT scanning; clinical aspects of herpes simplex; ptosis; indications, techniques and complications of vitrectomy; and contact lens update.

Ophthalmology PM 101. Ophthalmology grand rounds at St. Luke's-Roosevelt Hospital Center

July 1980 through June 1981. Third Wednesday of each month, 4:45-6. No fee. (1¼ hours each session)

Dr. James C. Newton, staff of the St. Luke's-Roosevelt Hospital Center, and guest lecturers.

Provides staff members with up-to-date knowledge on developments and controversial topics in all areas of ophthalmology.

Ophthalmology PM 300. Ophthalmology lecture series at the Harlem Hospital

July 1980 through June 1981. Third and fourth Monday; and second, third, and fourth Friday of each month, 4-5. No fee. (1 hour each lecture)

Dr. R. Linsy Farris, staff of the Edward S. Harkness Eye Institute and the Harlem Hospital Center, and guest lecturers. Harlem Hospital Center (M.L. King Pavilion, Room 13120).

To provide ophthalmology residents and attending staff with information regarding recent advancements in ophthalmology as well as one-year review. Includes 30- 40-minute presentations of all major subspecialties followed by discussion.

Ophthalmology PM 301. Neuro-ophthalmology rounds

July 1980 through June 1981. Dates to be announced, 4-5. No fee. (1 hour each session)

Drs. R. Linsy Farris and Myles Behrens, and staff. Harlem Hospital Center (M.L. King Pavilion, 9 South Conference Room).

To keep ophthalmologists, neurologists, residents, and allied health personnel abreast of recent developments in the management of clinical problems in neuro-ophthalmology. Past management methods reviewed along with the development of basic science fundamentals important in the management of clinical problems. Dr. Myles Behrens, Neuro-Ophthalmologist from the Edward S. Harkness Eye Institute, is presented patients by the resident staff of the Departments of Ophthalmology and Neurology. Patients selected for presentation to cover all areas of neuro-ophthalmology over the course of a year.

Orthopedic Surgery

Orthopedic Surgery PM 1. Orthopedic surgery and pathology

Part I: Basic science course. June 14-20.

Part II: Clinical sciences course, June 21-27. Sun-Sat, 8-6:30.

Drs. A. Garcia, A.D. Johnston, J. Denton, H. Kiernan, Jr., N. Eftekar, and H. Dick, associates, and guest lecturers. Fees to be determined.

An intensive course open to specialists and other physicians interested in musculoskeletal disease. Seminars and lectures in biochemistry, physiology, hand surgery, adult and children's orthopedics, trauma and their application to orthopedic surgery. The pathology section presents an intensive review of skeletomuscular diseases in a daily series of laboratory exercises including diagnostic identification of unknown tissue sections, gross specimens, and projected kodachrome reproductions of microscopic, roentgenographic, and macroscopic material. Demonstration, didactic discussion, and oral quizzes in small groups. Microscope required.

Orthopedic Surgery PM 2. Orthopedic surgery grand rounds

July 1980 through June 1981. Th 7:30-9 a.m. No fee. (1½ hours each conference)

Dr. Alexander Garcia, associates, and guest lecturers. Columbia-Presbyterian (P&S, 5-7 Amphitheater).

Presentation and discussion of interesting cases by members of the resident and attending staff.

Orthopedic Surgery PM 3. Adult reconstructive surgical service rounds

July 1980 through June 1981. Wed 7:30-10 a.m. No fee. (2½ hours each session)

Dr. Charles S. Neer II and staff. Columbia-Presbyterian (Presbyterian Hospital, 5th floor, Room 55).

In-depth consideration of specific topics by the attending staff, including subspecialists in the shoulder and elbow, spine, hip, knee, ankle, and foot. All aspects of adult reconstructive surgery and joint replacement, including pathology, diagnosis, surgical technique, aftercare, and complications.

Orthopedic Surgery PM 4. Orthopedic surgery trauma service conference

July 1980 through June 1981. Tu 4-5, Th 9-10:30. No fee. (1 hour and 1½ hours each conference)

Dr. S. Ashby Grantham and staff. Columbia-Presbyterian (Presbyterian Hospital, 5th floor, Room 55).

Teaching of fracture principles, specific care of trauma patients, and improved patient care.

Orthopedic Surgery PM 5. Surgery of the hand seminar

Sept through June. Fri 4-5. No fee. (1 hour each seminar)

Dr. Robert E. Carroll, staff, and guest lecturers. Columbia-Presbyterian (Presbyterian Hospital, 5th floor, Room 55).

Dissemination of knowledge of hand surgery to members of the staff of the Columbia-Presbyterian Medical Center, as well as guests and visitors. Lectures, discussions, guest speakers, and demonstrations carried out weekly by members of the Division of Hand Surgery.

Orthopedic Surgery PM 6. Pediatric orthopedic surgery service rounds
July 1980 through June 1981. Th 12-1. No fee. (1 hour each conference)
Dr. Harold M. Dick and staff. Columbia-Presbyterian (Babies Hospital, 4th-floor amphitheater).

Weekly didactic presentations by faculty members specializing in pediatric orthopedic surgery.

Orthopedic Surgery PM 7. New York Orthopedic Hospital alumni program
April 23-24. Th-Fri., 8-5. No fee. (14 hours)
Dr. John R. Denton, staff, and guest lecturers. Columbia-Presbyterian (Alumni Auditorium).

Alumni present papers on their clinical research in hand surgery, children's orthopedic surgery, adult reconstructive surgery, and trauma. Physicians attending the two-day course will be able to apply the knowledge of techniques and procedures in their daily practice of orthopedic surgery.

Orthopedic Surgery PM 8. Annual meeting, Robert E. Carroll Hand Club
Dates and times to be announced. (18 hours)
Dr. Robert E. Carroll and staff.

Nationally-known Chiefs of hand services discuss unpublished and recent trends and advances in the field of hand surgery.

Orthopedic Surgery PM 9. Principles and techniques for the use of external fixation
Sept 12-13. Fri-Sat, 7:30-5. \$100. N.Y.O.H. residents \$20. (8½ hours)
Dr. S. Ashby Grantham, staff, and guest lecturers. Columbia-Presbyterian Hammer Health Sciences Building (Amphitheater 401).

A demonstration of the theoretical and practical advantages of external fixation, with "hands on" practice in its application and use for improved care of fractures in patients.

Orthopedic Surgery PM 100. Weekly conferences at St. Luke's Hospital Center
July 1980 through June 1981. Dates and times to be announced. (1½ hours each session)
Dr. J. William Fielding, staff, and guest lecturers. St. Luke's-Roosevelt Hospital Center (Clark 6, Orthopedic Conference Room).

For residents and attending staff members who wish to further their knowledge of orthopedic surgery. Residents' performances on the Orthopedic In-Training and Board examinations emphasized.

Otolaryngology

Otolaryngology PM 1. Head and neck surgery conference
Sept through June. Tu 4:30-5:30. No fee. (1 hour each conference)
Dr. Maxwell Abramson, staff, and guest lecturers.

Formal talks intended to complement the subjects covered by grand rounds (see below). The objective of this series of lectures is to update the staff's understanding of rapidly changing medical fields related to otolaryngology.

Otolaryngology PM 2. Otolaryngology grand rounds
July 1980 through June 1981. Wed 4-5. No fee. (1 hour each conference)
Dr. Maxwell Abramson and attending and resident staff members.

Two cases are discussed each week. Initial discussion by staff members is followed by an in-depth description of the diseases, rationale for treatment, and discussion of relevant literature, designed to integrate an understanding of pathophysiology with the management of diseases in otolaryngology.

Otolaryngology PM 6. Head and neck tumor board conference

July 1980 through June 1981. Wed 11-12. No fee. (1 hour each session)

Dr. Maxwell Abramson, staff, and guest lecturers. Columbia-Presbyterian (PH-11-49).

For attending and house staff and medical students on rotation. An evaluation of patients with head and neck tumors and the planning of their treatment. Patient rehabilitation includes physical therapy, treatment of psychosocial problems, and surgical reconstruction. Histologic examination of tumors presented by members of the Pathology Service with clinical correlations. National and institutional treatment protocol studies are in progress and patient review for these protocols take place at this conference. A multidiscipline activity, involving representatives from otolaryngology, plastic surgery, radiology, medical oncology, psychiatry, prostodontics, pathology, social services, and nursing.

Otolaryngology PM 7. Communication rounds

Sept 4 through June 25. Th 4:30-5:30. No fee. (1 hour each session)

Drs. Maxwell Abramson and Anthony F. Jahn, staff, and guest lecturers. Columbia-Presbyterian (PH-11-49).

A review of topics of clinical interest pertaining to patient management and the academic requirements of otolaryngologic residency. A cross-disciplinary approach to specific cases and their management. Format includes didactic lectures and discussions of appropriate clinical cases and topics by guest lecturers.

Otolaryngology PM 300. Otolaryngology-audiology grand rounds at the Harlem Hospital Center

July 1980 through June 1981. Wed 9-10. (1 hour each session)

Dr. Lee D. Eisenberg and staff. Harlem Hospital Center (Public Health Building).

To increase knowledge concerning the diagnosis and work-up with patients with hearing disorders relating to medical and surgical problems. A discussion of the pathology and pathophysiology of the various diagnoses.

Pathology

Pathology PM 1. Surgical pathology

Four, six, or twelve months, beginning on the first day of any month between July 1980 and June 1981. Full time. \$400 for four months; \$600 for six months; \$1,200 for twelve months.

Dr. Cecilia M. Fenoglio. Columbia-Presbyterian (Vanderbilt Clinic, 14th floor).

Prerequisite: a personal interview, two letters of recommendation, and a curriculum vita.

Integral part of the training of graduate students pursuing advanced studies in surgery and pathology. Students participate in the diagnostic and/or research activities of the surgical pathology section of the Department of Pathology at the College of Physicians and Surgeons and various other units of the Medical Center.

Pathology PM 2. Pediatric pathology (including fetus and placenta)

Four, six, or twelve months, beginning on the first day of any month between July 1980 and July 1981. Full time. \$400 for four months; \$600 for six months; \$1,200 for twelve months.

Professor W. Blanc. Columbia-Presbyterian.

Prerequisite: a personal interview.

One year of previous training in pathology, pediatrics, or obstetrics.

The student actively participates in all activities of the Division of Developmental Pathology.

Pathology PM 3. Diagnosis and advances in surgical pathology

Oct 6-8. Mon-Wed, 8:30-5:30. \$300 (or \$125 a day). Residents, \$150 (or \$60 a day). (24 hours)

Drs. C. Fenoglio and Luciano Ozzello, staff, and guest lecturers. Columbia Presbyterian (Alumni Auditorium).

For pathologists, surgeons, and clinicians interested in current advances and diagnostic criteria in selected areas of surgical pathology, including diseases of the breast, genitourinary system, the lung, and endocrine problems. Fee includes syllabus and luncheons.

Pathology PM 4. Clinical laboratory management**Nov 1981. Dates, times, and fee to be announced. (7 hours each day)****Drs. D.W. King and John Nicholson, staff, and guest lecturers. Columbia-Presbyterian (Alumni Auditorium).**

Emphasis on clinical laboratory management including cost containment and rational criteria for the selection and repetition of appropriate laboratory tests in relation to specific clinical problems.

Pathology PM 5. Diagnosis and advances in medical pathology**April 27-29. Mon-Wed, 9-5. \$250 (or \$100 per day).****Drs. D.W. King and John J. Fenoglio, Jr., and guest lecturers. Columbia-Presbyterian (Alumni Auditorium).**

Update of advances in general medical pathology, including cardiovascular, respiratory, and gastrointestinal diseases. Lectures and discussion groups included.

Pathology PM 6. Renal biopsy in medical diseases of the kidney**Sept 29 through Oct 3. Mon-Fri, 8:30-5:30. \$400. Residents, \$200. (35 hours)****Dr. Conrad Pirani, associates, and guest lecturers.**

In the third year, open to pathologists, nephrologists, internists, and other physicians interested in update on advances of diagnostic problems in medical-renal diseases. Clinicopathological correlations emphasized. Fee includes syllabus with summaries and selected references of each lecture, representative Kodachrome slides, electronmicrographs of "classic" renal lesions, and luncheons. Over two-dozen representative study cases including clinical histories, light, electron and immunofluorescent microscopy studied in afternoon laboratory sessions. Discussion groups and panel discussions also held. Demonstration of the need for clinicopathological correlation in the diagnosis, study, and prognosis of renal diseases.

Pathology PM 7. Current concepts in liver pathology 2**May 22-23. Fri-Sat, 8:30-5. Fee to be determined.****Dr. Jay Lefkowitz, staff, and guest lecturers. Columbia-Presbyterian (Alumni Auditorium).**

New information pertinent to viral and drug-induced hepatitis, alcoholic disease, medical and surgical management of biliary disease, and other major topics presented by expert investigators in the field of hepatology. One day is devoted to clinical and pathological discussion of cases illustrating liver pathology using a set of Kodachrome slides. Course syllabus provided.

Pathology PM 8 (and Medicine PM 11). Clinical pathological conference**Sept through May. Tu 5-6. No fee. (1 hour each conference)****Drs. Abbie I. Knowlton and Whitley Branwood, and associates in the Departments of Medicine, Pathology, and Radiology. Columbia-Presbyterian (Hanger Amphitheater, P&S 8-9).**The educational goal of the course is to further clinical teaching and understanding of pathological processes, providing a unique opportunity to apply clinical judgment to a problem in depth, to weigh the usefulness of various diagnostic aids, the effectiveness of therapy against the natural history of the disease, and to have these measured in the light of pathological findings. Case material is drawn from patients, coming either to operation or autopsy, who were diagnostic problems. An abstract of the patient to be discussed, including the history, laboratory findings, and course, is furnished a week ahead of each session. Discussion is started by a clinician, who reviews the case, analyzes the data and, on the basis of his or her clinical judgment, discusses the diagnosis and management, followed by a radiologist who shows the pertinent films and discusses their interpretation. Finally, a pathologist presents the surgical or autopsy findings. The cases are selected to cover those aspects of disease under discussion concurrently in *Abnormal Human Biology 101S*.**Pathology PM 9. Gross pathology conference****July 1980 through June 1981. Mon 4-5. No fee. (1 hour each session)****Dr. Philip E. Duffy and staff. Columbia-Presbyterian (P&S, 14-440).**

The clinician is able to observe the location and gross features of lesions in the brains of patients who have been recently evaluated clinically. In attendance are neurologists, neurosurgeons, neuropathologists, and neuroradiologists. An effort is made to have physicians present who are involved in the actual care of the patient. After a formal lecture on the case and findings, group discussion is invited.

Pathology PM 10. Neuropathology sign-out conference

July 1980 through June 1981. Fri 10-12. No fee. (2 hours each session)

Dr. Philip E. Duffy and staff. Columbia-Presbyterian (P&S, 15-510).

Residents-in-training in neurology, neurosurgery, pathology, and neuropathology are taught the pathologic basis of neurologic disease, particularly as it relates to effective clinical management. Presentation of clinical data, observation of gross findings by means of Kodachrome slides, and examination of representative lesions with the light microscope included.

Pathology PM 11. Specialty pathology of the head and neck

March 30-31; April 1-3. Mon-Tue; Wed-Fri, 9-5. \$400 (or \$100 a day)

Drs. D.W. King and David N. Silvers. Columbia-Presbyterian (Alumni Auditorium).

Clinical and pathologic features of a spectrum of lesions occurring in skin, oral cavity, salivary glands, nasal and paranasal sinuses, nerve, and muscle; tumors of the brain, including immunocytochemistry of gliomas; selected degenerative and demyelinating diseases of the central nervous system also discussed.

Pathology PM 12 (also Surgery PM 15). Pediatric surgery pathology conference and seminar

July 1980 through June 1981. Wed 8:30-9:30. No fee. (1 hour each conference)

Drs. Thomas V. Santulli and William Blanc, and staff. Columbia-Presbyterian (BH Pathology Conference Room, BHS, T-12).

Update of pediatric surgical problems including a weekly review of pediatric surgical pathology specimens and lectures on pediatric surgical subjects.

Pathology PM 13. Pediatric pathology

Three days in May, 1981. Dates, times, and fees to be announced

Dr. William A. Blanc, staff, and guest lecturers. Columbia-Presbyterian (Alumni Auditorium).

Advances and selected topics in pediatric pathology.

Pathology PM 101. Pulmonary pathology conference at St. Luke's-Roosevelt Hospital Center

Sept 3 through June 24. Wed 12-1. No fee. (1 hour each conference)

Dr. Stephen F. Ryan, staff, and guest lecturers. St. Luke's-Roosevelt Hospital Center (Pathology Library).

For postgraduate and undergraduate students of pulmonary disease. Utilizes clinical material with histologic confirmation of the diagnosis obtained at biopsy or autopsy. The patients' clinical, radiologic, and routine and pulmonary physiologic data presented and discussed in anticipation and subsequent to disclosure of the histologic finds in the manner of a clinical pathologic conference. At each conference, one or more disease entities and the differential diagnosis is discussed in depth. During the academic year, each category of pulmonary disease is covered in this manner.

Pediatrics

Pediatrics PM 1. Current pediatric topics

Dates to be announced. Wed-Fri 8-5. \$200. Residents and interns, \$100. (21 hours)

Drs. Michael Katz and Stephen J. Atwood, associates, and guest lecturers. Columbia-Presbyterian (Alumni Auditorium).

Open to all physicians.

Review of recent clinical advances in pediatrics, with emphasis on the understanding, diagnosis, and management of specific diseases and/or specific pathophysiological states.

Pediatrics PM 2. Continuing education seminar

Sept through June. First Saturday of each month, 9-11. No fee. (2 hours each seminar)

Dr. Stephen V. Atwood and guest lecturers. Columbia-Presbyterian.

Open to pediatricians, family physicians, and other physicians who provide medical care to children. Seminars are oriented toward primary pediatric care. Recent advances in the understanding, diagnosis, and therapy of common pediatric conditions are presented. Format consists of lectures and clinical care presentations.

Pediatrics PM 3. Pediatric grand rounds

July 1980 through June 1981. Fri 11-12. No fee. (1 hour each conference)

Drs. Michael Katz and Stephen J. Atwood, and associates. Babies Hospital (4N Auditorium).

Topics relevant to pediatric clinical care and research are presented and discussed.

Pediatrics PM 4 (also Neurology PM 4). Pediatric neurology conference

July 1980 through June 1981. Dates and times to be announced. No fee. (1 hour each conference)

Dr. Darryl C. DeVivo, staff, and guest lecturers. Columbia-Presbyterian (B.H. Amphitheater 4).

Topics relevant to pediatric neurology presented and discussed: neurological emergencies, coma, cerebrovascular disease, headache, dementia, aphasia, neuro-oncology, head trauma, CNS infections, neurovirology, neuro-ophthalmology, neuro-epidemiology, epilepsy, demyelinating disease, lipid storage diseases, neurological manifestations of systemic disease, cerebellar disease, peripheral neuropathy, neuromuscular disease, and diseases of the cord.

Pediatrics PM 6 (also Surgery PM 17). Pediatric combined tumor conference

July 1980 through June 1981. Th 12-1. No fee. (1 hour each conference)

Drs. Thomas V. Santulli and Sergio Piomelli and staff. Presbyterian Hospital (B.H.A 1-105, MacIntosh Conference Room).

Preview of pediatric oncology including discussion of treatment protocols. Presentation of pediatric solid tumor cases, discussion of diagnosis, and multidisciplinary management techniques.

Pediatrics PM 100. Pediatric grand rounds at St. Luke's Hospital Center

July 1980 through June 1981. Dates and times to be announced. No fee. (1 hour each conference)

Dr. Leo F.J. Wilking and staff. St. Luke's Hospital Center (Sunderland Auditorium, Clark 4).

Eminent guest lecturers discuss topics relevant to general and subspecialty pediatrics. Current advances in the diagnosis and management of a variety of conditions confronting the practicing pediatrician.

Pediatrics PM 101. Pediatrics postgraduate continuing education course at the St. Luke's Hospital Center

Sept through June. One Saturday each month, 9-12. \$50. Residents, no fee. (3 hours each session)

Drs. Leo F.J. Wilking and Dennis J. Allendorf and staff. St. Luke's Hospital Center (Sunderland Auditorium).

Open to pediatricians, family physicians, pediatric nurse practitioners, and other physicians who provide medical care to children. Seventh year of lectures, clinical case presentations, and seminars to acquaint primary care deliverers with the recent advances in the understanding, diagnosis, and therapy of common pediatric conditions.

Pediatrics PM 200. Pediatric grand rounds at The Roosevelt Hospital

July 1980 through June 1981. Mon 8-9 a.m. No fee. (1 hour each conference)

Drs. Louis Z. Cooper and George M. Lazarus, associates, and guest lecturers. The Roosevelt Hospital (Winston Conference Room).

For residents, faculty members, and community-based practicing pediatricians. Prominent medical speakers present recent advances in pediatrics.

Pediatrics PM 201. Pediatric conference at The Roosevelt Hospital July 1980 through June 1981. Tu 8:30-9:30 a.m. No fee. (1 hour each conference).

Drs. Louis Z. Cooper and George M. Lazarus, associates, and guest lecturers. The Roosevelt Hospital (Pediatric Library, 6th floor, Tower Building).

For residents, faculty members, and community-based practicing pediatricians. A comprehensive review of all major areas in pediatrics.

Pediatrics PM 202. Roosevelt Hospital pediatric conference at the Staten Island Development Center: weekly seminars and lecture series on the problems of the developmentally disabled population

Sept through June. Wed. 1:30-2:30. No fee. (1 hour each seminar)

Drs. Louis Z. Cooper, Philip R. Ziring and Sayenna A. Uduman, staff, and guest lecturers. The Staten Island Development Center. Institute for Basic Research in Mental Retardation (Lecture Room).

Acquaints the primary care physician with recent advances in the understanding, diagnosis, and prevention of genetics and metabolic disorders, including a broad range of medical and surgical topics related to mental retardation.

Pediatrics PM 300. Pediatric clinical conference at the Harlem Hospital Center July 1980 through June 1981. Tu 4-5. No fee. (1 hour each conference)

Drs. Margaret C. Heagarty and Yusuf Khakoo and staff. Harlem Hospital Center (M.L. King Pavilion, Room 16104).

An outline of clinical aspects, particularly physical diagnosis, differential diagnosis, laboratory and other ancillary support, including clinical management of common pediatric problems, with emphasis on problems seen commonly in the Pediatric Service. A case presentation by a member of the house staff opens the discussion which is continued by a member of the attending staff who has special expertise. Cases dealing with pediatric medicine, pediatric surgery, and neonatology with some component of rehabilitation medicine and psychiatry are usually selected from the Pediatric Service.

Pediatrics PM 301. Pediatric grand rounds at The Harlem Hospital Center July 1980 through June 1981. Th 3:45-5:15. No fee. (1½ hours each session)

Drs. Margaret C. Heagarty and Yusuf Khakoo, staff, and guest speakers. Harlem Hospital Center (M.L. King Pavilion, Room 16104).

For pediatric house staff, fellows, attending staff, and practitioners in the community. A case presentation may precede formal discussion, and may be followed by a brief question-answer period, to utilize the speaker's expertise in a specific area to familiarize the audience with advances in the understanding of the problems to provide better care as well as to introduce areas of on-going research. Specialists present topics of clinical and academic interest selected to cover pediatrics as completely as time permits.

Pediatrics PM 302. Harlem Hospital pediatric conference

February through July. One day a week. Dates and times to be announced. No fee. (1 hour each conference)

Drs. Margaret C. Heagarty and Araceli R. Ancajas, staff, and guest lecturers. Pediatric O.P.D. (Room 329).

Highlights clinical aspects of the problems discussed and outlines clinical management using laboratory and diagnostic facilities. The topic is discussed by an attending pediatrician or a guest speaker who has a special interest in the subject. Course is also preceded by a brief case presentation.

Pediatrics PM 400. Pediatric grand rounds at Overlook Hospital

July 1980 through June 1981. Second, third, and fourth Fridays of each month, 8:15-9:15 a.m. No fee. (1 hour each session)

Drs. Gloria O. Schrager and Solomon J. Cohen, associates, and guest lecturers. Overlook Hospital, Summit, New Jersey (Conference Room No. 1, 5th floor).

Lectures on recent advances in pediatrics. On the fourth Friday of the month a joint Obstetrics/Pediatric Combined Perinatal Conference is held. (The first Friday of the month is the pediatric departmental meeting.)

Pediatrics PM 401. Medical ethics rounds at Overlook Hospital

August 1 through June. One day a week, 1-2. No fee. (1 hour each session)

Drs. Gloria Schrager and Solomon J. Cohen and staff.

Improves ability to cope with sensitive clinical problems by sharing inputs. Transdisciplinary conference includes pediatricians, psychiatrists, social workers, psychologists, members of the clergy, and nursing professionals.

Pediatrics PM 600. 1981 Birth defects conference on the fetus and newborn

Times, dates, and fee to be announced. (15 hours)

Dr. Arthur D. Bloom, staff, and guest lecturers.

Speakers and topics to be determined.

Physical and Rehabilitation Medicine

Rehabilitation Medicine PM 1. Rehabilitation medicine lecture series

July 1980 through June 1981. Fri 1-3. No fee. (2 hours each conference)

Drs. John A. Downey and Erwin G. Gonzalez, associates, and guest lecturers.

Neurological Institute (8th floor).

Covers topics required by participants studying for the American Board of Physical Medicine and Rehabilitation. Included is a section on functional and kinesiology anatomy, surface anatomy with live model demonstration, and cadaver dissection.

Rehabilitation Medicine PM 2. Rehabilitation medicine grand rounds

July 1980 through June 1981. Tu 9-10. No fee. (1 hour each conference)

Drs. John A. Downey and Erwin G. Gonzalez, associates, and guest lecturers.

Neurological Institute (8th floor).

Covers topics required by participants studying for the American Board of Physical Medicine and Rehabilitation. Included is a section on functional and kinesiology anatomy, surface anatomy with live model demonstration, and cadaver dissection.

Rehabilitation Medicine PM 3. Rehabilitation medicine basic science lecture series

July 1980 through June 1981. Tu 9-12. No fee. (3 hours each conference)

Drs. John A. Downey and Erwin G. Gonzalez, associates, and guest lecturers.

Neurological Institute (8th floor).

For residents and attending staff on subjects relevant to physical medicine and rehabilitation. Lecture-series format, with each series about three months.

Rehabilitation Medicine PM 7. Rehabilitation medicine radiology didactic session

July 1980 through June 1981. Th 11-12. No fee. (1 hour each session)

Drs. George Ascherl and Erwin G. Gonzalez, associates, and guest lecturers.

Columbia-Presbyterian (8th floor).

Emphasis on radiologic problems commonly encountered in the practice of rehabilitation medicine.

Rehabilitation Medicine PM 300. Rehabilitation medicine seminars at the Harlem Hospital Center

Sept through June. Fri 9-10. No fee. (1 hour each conference)

Dr. H.L. Thornhill, associates, and guest lecturers. Harlem Hospital Center (M.L. King Pavilion).

Established over ten years ago, these conferences include presentations selected with the educational needs of a multidisciplinary staff in mind. Current and relevant health care information is discussed. On the first Friday of each month there is a joint session with the Departments of Neurology and Rehabilitation Medicine with a neurologist as the guest speaker.

Psychiatry

Of particular interest to physicians in the psychiatric field may be *Medicine PM 201—Alcoholism: medical and therapeutic management of the alcoholic patient*, and *Medicine PM 202—Alcoholism: medical and therapeutic management of the alcoholic patient*, including supervised individual clinical experience, described in full under Internal Medicine.

Psychiatry PM 1. Symposium on neurology and psychiatry: ten week review course

Sept 29 through Nov 26. Mon-Fri, 9-5. \$950 (or \$100 a week). (300 hours)

Dr. James H. Ryan and the staffs of the N.Y. State Psychiatric Institute and the Neurological Institute. Columbia-Presbyterian.

Open only to physicians who have had considerable previous training and experience in neurology and psychiatry. Physicians on the staffs of institutions under the New York State Department of Mental Hygiene are admitted without payment of tuition or registration fees. (A nominal administrative fee is charged for documentation of attendance.)

The symposium—a review of neurology and psychiatry—is made up of courses grouped under the four general headings below. These courses may not be taken individually. A detailed schedule of classes may be obtained on request. The course is suitable preparation for the National Board Examination.

A. Basic Neurology. Drs. M. Kaufman and L. Roizin.

A course in neuroanatomy, presenting essential anatomical and associated neurophysiological features of the spinal cord and brain. The course on basic neurophysiology deals with the functional relationship of the various portions of the nervous system which are especially related to neural disturbances found in certain neurological and psychiatric disorders. Clinical neurophysiology (electroencephalography) is correlated with clinical observations. A special course given on the physiology of the autonomic nervous system in the light of psychosomatic concepts. The course in neuropathology consists of lectures and demonstrations of gross specimens and microscopic slides. Correlation between clinical findings and pathological lesions is taken into consideration. Demonstrations include presentation of microscopic and gross material illustrating the lecture material.

B. Clinical Neurology. Dr. L. Rowland and staff.

Clinical lectures and demonstrations illustrating the chief organic diseases of the nervous system. The technique of neurological examination, explaining the significance of neurological signs and symptoms. Therapy in neurology includes the various types and methods used in the treatment of nervous diseases with special reference to physiotherapeutic and occupational therapy methods. The roentgenographic interpretations of the diseases affecting the nervous system consist of study of the various lesions affecting the skull and intracranial contents and spinal cord. Emphasis on electroencephalography.

C. Basic Psychiatry. Dr. James H. Ryan and staff.

Lectures on intelligence, memory, perception, etc., and psychological testing procedures. Psychodynamics acquaints the student with levels of psychological organization, conscious and unconscious integration, and motivation of psychic action. Comparative psychodynamics investigates the theoretical and therapeutic principles of the different psychoanalytic and psychotherapeutic schools. Genetics and mental disease consist of a description of basic genetic laws and theories, plus modern research methods and the genetics of schizophrenia, manic depressive psychosis, and other mental disorders. Special lectures on new advances in chemistry and medicine in relation to neurochemistry.

D. Clinical Psychiatry. Dr. James H. Ryan and staff.

History and somatogenic and psychogenic aspects of the different psychiatric disorders, correlating the best known theories and practices. Integrates the lectures on basic psychiatry with diagnosis, prognosis, and therapy. A similar course is given on child psychiatry from the same point of view. The lectures on therapy are subdivided as follows: (1) the practice of psychoanalysis and discussion of the clinical application of psychoanalysis to the study and treatment of neurosis and psychosis; (2) nonanalytic forms of psychotherapy, which discusses suggestions, hypnosis, and other forms of psychotherapy from a psychodynamic point of view. Organic therapy, shock treatment, psychopharmacologic agents—tranquilizers, antidepressant drugs, etc.—are discussed. Legal psychiatry covers the forensic aspects, commitment, court procedures, and the relationship of criminology to psychiatry. Mental hygiene and community psychiatry consider preventative psychiatry from the earliest period of life to the adult years.

Psychiatry PM 2. The basic psychological sciences**Oct 3 through May 15. Fri 9-5. \$750. (213 hours)****Dr. James H. Ryan and staff. Columbia-Presbyterian.**

Designed for first-year-level residents in psychiatry.

The program provides for basic psychobiological sciences, clinical aspects of psychiatry, lectures in neuroanatomy and neuropathology, interview techniques, and genetics, as well as many other areas of interest.

Psychiatry PM 3. Adult and child psychiatry**Oct 3 through May 15. Fri 9-5. \$750. (213 hours)****Dr. James H. Ryan and staff. Columbia-Presbyterian.**

Open to physicians who have completed at least two years of training in the program provided by the New York State Department of Mental Hygiene.

Residency training on a second- and third-year level in the combined program of the New York State Psychiatric Institute and the Presbyterian Hospital. This program provides for psychiatric treatment of adults and children in an outpatient department. Personal supervision of individual cases as well as conferences and seminars are conducted by the members of the staff.

If *Psychiatry PM 4* and *PM 5* (see below) are registered for at the same time, the combined fee is \$700; residents, \$550. (The total for the two courses is 80 hours.)

Psychiatry PM 4. Basic medical hypnosis**Oct 27 through 30. Mon-Th, 9-5. \$400. Residents, \$300. (32 hours)****Drs. Herbert Spiegel (course director), Barbara DeBetz, David Spiegel, and Daniel Williams, and guest lecturers. Columbia-Presbyterian.**

A personal interview may be required for admission.

Open only to physicians, dentists, psychologists (Ph.D. level), research scientists with a special interest in hypnosis, and registered nurses with special qualifications.

Lectures, case demonstrations, workshops, movies, television, slides, and seminars designed to present techniques and theories of hypnosis and to demonstrate the practical adjunctive uses of hypnosis in clinical medicine from the perspectives of diagnosis, therapy, and research. The focus is the significance of the *Hypnotic Induction Profile* and its use in therapy, with special emphasis on pain, habit control, and psychosomatic disorders. At the conclusion of the basic course each participant should have acquired the skill to assess and use hypnotic trance capacity as measured by the *Hypnotic Induction Profile*.

Psychiatry PM 5. Hypnosis and psychiatry**March 23-26. Mon-Th 9-5. \$400. Residents, \$300. (32 hours)****Drs. Herbert Spiegel (course director), Barbara DeBetz, David Spiegel, and Daniel Williams, and guest lecturers. Columbia-Presbyterian.**

Open to psychiatrists, physicians interested in psychological factors, psychologists (Ph.D. level), and research scientists with special interests (subject to the course director's approval) who have taken the basic hypnosis course *Psychiatry PM 4*, or the equivalent.

Prerequisite: knowledge of the *Hypnotic Induction Profile*.

Lectures, seminars, case demonstrations, workshops, movies, and slides utilized to elaborate the various techniques with which hypnosis can facilitate the psychotherapeutic process. At the end of the course each participant should have learned the use of hypnotic trance capacity in diagnosis and therapy and should have acquired the skill to design specific treatment strategies for short- and long-term psychotherapy.

Psychiatry PM 8. Seminar in paraverbal techniques in the therapy of childhood communication disorders**Sept 16 through May 30. 2 hours each week. \$300. (70 hours)****Dr. Clarice Kestenbaum and Mrs. E.P. Heimlich. St. Luke's Hospital Center.**

Maximum class: six. Open to resident child psychiatrists, staff members of mental institutions (especially those in the children's service), and graduate students in psychology and related fields. Personal interview required.

Training in analysis of communication between child and therapist as observed clinically. Paraverbal therapy an alternate approach to psychotherapy for difficulties. Group and parent child treatment techniques include an active experimental method that uses multisensory media such as mime, sound and movement, rhyme, and painting, within a psychiatric framework. Principles are drawn from demonstration and observation of the therapy. No previous extended training in the media required other than the usual liberal arts exposure. Pertinent psychiatric literature assigned and discussed. Opportunity for supervised individual clinical experience.

Psychiatry PM 9. Supervision of paraverbal therapy

Sept 16 through May 30. 2 hours each week. \$300. (70 hours)

Dr. Clarice Kestenbaum and Mrs. E.P. Heimlich. St. Luke's Hospital Center.

Limited registration.

Prerequisite: registration in *Psychiatry PM 8* and a personal interview.

Individual selection of students for advanced training in the supervisory techniques of paraverbal therapy.

The level of experience of the individual student determines the level of participation and responsibility.

Psychiatry PM 10. Psychobiology of the psychoses

Four Wednesdays, 7:30-9. Sept-Oct. \$50. (6 hours)

Dr. Michael Sheehy. Columbia-Presbyterian.

Open to social workers and to clinical psychologists and psychiatrists not actively involved with biological psychiatry.

Reviews evidence for the biological basis of major psychiatric disorders and the implications of this evidence for psychological treatment planning. A brief summary of current biological treatment is also included.

Psychiatry PM 14. Human sexual disorders: development, diagnosis, and treatment

Two days, dates, times and fee to be announced.

Dr. John O'Conner, associates, and guest lecturers.

Topics to be announced at a later date.

Psychiatry PM 16. Management of the dying patient and the bereaved: an introduction to thanatology

Not given in 1980-1981.

Dr. Austin Kutscher, associates, and guest speakers. Columbia-Presbyterian.

Acquaints the physician and other health professionals with the techniques of dealing with the problems encountered in the management of dying patients, their families, and involved staff; application to clinical work stressed. Utilizes group discussions, seminars, patient interviews, case presentations, didactic lectures, audiovisual materials, and selected readings.

Psychiatry PM 19. Grand rounds of the Department of Psychiatry

Sept through June. Fri 11-12:30. No fee. (1½ hours each session)

Dr. Edward J. Sachar, associates, and guest lecturers. Columbia-Presbyterian (New York State Psychiatric Institute, 8th floor auditorium).

Clinical, research, and theoretical presentations by authorities on the biological, psychological, and social aspects of psychiatry. Methods of presentation include case presentations, lectures (videotaped and live), interviews with patients, and panel and group discussions. The educational objectives are to transmit and discuss current developments in psychiatry and medicine which enhance clinical skills and research endeavors, to present and examine clinical presentations so as to improve diagnostic and treatment skills, and to explore the relationship between psychiatry and the arts and social sciences.

Psychiatry PM 20. Child psychiatry grand rounds

Sept through June. Wed 12-1:30. Three sessions each month. No fee. (1½ hours each conference)

Dr. David Shaffer, associates, and guest lecturers. Columbia-Presbyterian (New York State Psychiatric Institute, 9th floor South, Classroom B).

The educational objectives are to provide a current overview of clinical and research developments in the field of child psychiatry, with emphasis on exchange and discussion between speakers and audience, including case presentations, presentation of clinical or basic research projects, and discussion.

Psychiatry PM 21. Basic aspects and current topics in neuropathology and neurotoxicology

Sept through June. Last Thursday of month, 9:30-5. No fee. (60 hours)

Drs. L. Roizin, M.A. Kaufman, N. Willson, and R. Stiller, and guest lecturers. Columbia-Presbyterian (New York State Psychiatric Institute, Department of Neuropathology and Neurotoxicology, 12th floor museum).

Lectures include: (a) evolution of fundamental pathogenic mechanisms of the central nervous system; (b) basic pathological changes of the neuron, astroglia, oligodendroglia, and microglia; (c) circulatory disorders and vascular pathology; (d) infections of the CNS and meninges; (e) de- and dysmyelinative processes; (f) hereditary and acquired degenerative processes and idiopathic aging; (g) system and

extrapyramidal diseases; (h) schizophrenia and therapeutic side effects; and (i) neurotoxicology: toxic reactions and prenatal effects of neuropsychotropic agents. Gross and microscopic demonstrations, clinical neuropathological and neurotoxicological case reviews, and current methodologies and instrumentation.

Psychiatry PM 36. Introduction to DSM III

One day, date to be announced, 9-5. No fee. (7 hours)

Drs. Robert L. Spitzer, Michael Sheehy, Steven Hyler, Lawrence Sharpe, Jean Endicott, and Rachel Gittelman, and Janet B.W. Forman, M.S.W. Columbia-Presbyterian (New York State Psychiatric Institute, 8th floor auditorium).

For the directors of the facilities of the New York State Department of Mental Hygiene and their designated deputies. DSM III involves several significant departures from DSM II; the optimal use of this system requires extensive study by the entire profession. The purpose is to teach practitioners the new diagnostic concepts that are contained in the draft version of the Third Edition of the American Psychiatric Association's Diagnostic and Statistical Manual of Mental Disorders (DSM III). Upon completion of this program, the practitioners will be familiar with the underlying principles that have been involved in the development of DSM III and their applicability to their own diagnostic practices. This includes familiarity with: (1) new terminology for traditional diagnostic categories; (2) new diagnostic categories; (3) diagnostic distinctions involved in the differential diagnosis; (4) diagnostic criteria for the major diagnostic categories; (5) the use of multiaxial approach to diagnosis. The program consists of several lectures, followed by case studies that the audience assists in diagnosing. Participants are provided with the most recent classification, case summaries, and answer keys. In addition, participants are requested to purchase a draft of DSM III directly from the American Psychiatric Association prior to the program. Participants are asked to give a DSM III multiaxial diagnosis for case summaries prior to their discussion and are also to answer self-assessment questions.

Psychiatry PM 38. A two-day update and review of issues in psychiatry

Two days, dates to be announced, 9-5, given three times a year. Dates and fees to be determined. (15 hours each two-day course)

Dr. James H. Ryan, associates, and guest lecturers. Columbia-Presbyterian (New York State Psychiatric Institute, 8th floor auditorium.)

Limited to 25 students.

Three two-day courses given each year for the medical staffs of the New York State Psychiatric Centers. Candidates selected by the directors of the state hospitals on the basis of merit. Designed to bring the staffs of the New York State Mental Hospitals up to date on the most significant and critical issues in psychiatry, including recent research and clinical information.

Psychiatry PM 41. Psychobiology seminar

Sept through July. Th 3-4. No fee. (1 hour each seminar)

Dr. Laurence L. Greenhill, staff and guest lecturers. Columbia-Presbyterian (New York State Psychiatric Institute, 10 North Lecture Hall).

A presentation of the latest scientific methodology and research findings for research fellows and research faculty at the Psychiatric Institute. Prominent researchers in brain research, neurophysiology, neuroendocrinology, and psychopharmacology present their latest work. Emphasis on interaction between research trainees and research faculty and the guest lecturers.

Psychiatry PM 42. Development and treatment of sexual dysfunction in women

Oct 11. Sat 9-6. \$50. Residents \$25. (7 hours)

Dr. John F. O'Conner, staff, and guest lecturers. Columbia-Presbyterian (New York State Psychiatric Institute).

Oriented toward understanding the developmental factors resulting in sexual dysfunction in women including disorders resulting from physical impairment. Experts in the field present new short-term behavioral methods for the treatment of such dysfunctions. Lectures by faculty members from the Department of Psychiatry and guest lecturers. Opportunity for additional subsequent training in the field is available to registrants.

Psychiatry PM 43. Continuing education in psychiatry: DSM III update

Five lectures, June 23 through July 10, 1980. Mon and Th 10:30-12. \$75. (2½ hours each session)

Dr. James Ryan and staff of Columbia-Presbyterian (New York State Psychiatric Institute, Auditorium).

Designed to inform New York State Department of Mental Hygiene physicians at the New York State Psychiatric Institute of new diagnostic changes as described by D.S.M. III.

Psychiatry PM 44. Neurobehavioral sciences colloquia

Dec 4, 1980 through May 28, 1981. Th 12-1:30. No fee. (1½ hours each session)
Dr. Murray Glusman, staff, and guest lecturers. Columbia-Presbyterian (Black Building, 306).

This series of seminars acquaints the pre- and postdoctoral fellows in the Neurobehavioral Sciences Research Training Program and members of the Departments of Psychiatry, Anatomy, Physiology, and others interested in the neurosciences, with recent advances in the knowledge of the nervous system. Special emphasis on the contribution of these advances to understanding behavior. Leading neuroscientists from the U.S. and abroad present their research findings.

Psychiatry PM 45. Psychiatry lecture series

Five lectures, June 23 through July 11, 1980. 10:30-12. \$75. (1½ hours each lecture)

Dr. James H. Ryan and staff of Columbia-Presbyterian (New York State Psychiatric Institute Auditorium).

The objective of the course is to inform New York State Hospital staff of current changes in diagnostic concepts.

Psychiatry PM 46. Psychiatric diagnosis and treatment: update 1980

Nov 7-8. Fri-Sat, 8:30-5. \$145. (13 hours)

Drs. Robert L. Spitzer and Andrew E. Skodol, staff, and guest lecturers. Barbizon Plaza Hotel. New York, N.Y.

Review of recent advances in psychiatric diagnosis and treatment in four major areas: schizophrenic and related psychotic disorders, affective disorders, anxiety disorders, and personality disorders. Each section opens with a case presentation and each of three speakers in the four designated areas address their presentations on diagnostic issues. Treatment is then discussed by two speakers, one focusing on psychopharmacological approaches, the other on psychotherapeutic measures. Current controversies in diagnosis and the status of the relationship of diagnosis to treatment included. Lecture topics include: anxiety syndromes; pharmacotherapy of anxiety disorders and behavioral approaches to anxiety disorders; recent developments in the drug treatment of schizophrenia; dimensional versus categorical diagnosis of personality disorders; psychoendocrine tests for affective disorders; psychopharmacological management of affective disorders; the efficacy of psychotherapy in depression; and psychopharmacological intervention in personality disorders.

Psychiatry PM 47. Behavioral medicine

November 23-25. Sun-Tues, 8-7:30. Fee to be determined. (16½ hours)

Dr. Gene G. Abel, staff, and guest lecturers. New York Hilton. New York, N.Y.

Trains participants in the application of behavioral methods to health care including compliance, reducing cardiovascular risk factors, weight reduction, hypertension, and type A behavior. Course offers four categories of activities: symposia on new behavioral medicine topics; poster session on new research data presented by the author; workshops on a specific area in behavioral medicine with emphasis on the current state of the art; and practica on clinical applications of behavioral methods to health care problems.

Psychiatry PM 100. Advanced group psychotherapy at St. Luke's Hospital Center

January 8 through June 25. Th 1:45-3:45. \$500. Residents \$400. (45 hours)

Dr. Kenneth Porter. St. Luke's Hospital Center (Clinic K).

Enrollment limited.

An advanced course in group psychotherapy for mental health professionals with prior experience in group therapy. Expands the participants' awareness and comfort with the variety of psychoanalytic and extra-analytic group leadership techniques in group psychotherapy. Includes lectures, discussions, and scripted role playing, a new teaching technique in group therapy. Emphasis on advanced techniques, the therapists' capabilities, and combined individual, group, and family therapy with a psychoanalytic and humanistic orientation. At the conclusion of the course, participants deal with actual group therapy problem situations using a range of possible solutions as a means of evaluating the learning process. Detailed syllabus included

Psychiatry PM 200. Psychiatry grand rounds at The Roosevelt Hospital Center Sept 17 through May 27. Wed 11-12:30. \$150. Residents, no fee. (1½ hours each session)

Drs. Harley C. Shands, Garry Lefer, and William M. Tucker and associates. The Roosevelt Hospital Center (Winston Conference Room.)

Designed to meet the continuing medical education needs of psychiatrists, including: (a) updating of information of basic areas of clinical skills; (b) presentation of research in both clinical and theoretical areas of neurobiology to broaden the perspective of thinking and prevent routinization of case management, (c) familiarizing practitioners with the work of closely allied fields and areas of specialization. Presentations include lectures, videotapes, and panel discussions on clinical subjects in psychiatry, including evaluation of treatment outcome and theoretical subjects of clinical relevance in psychiatry and related fields of medicine, neurology, and neurobiology. Topics include clinical implications of the work of Piaget (H.C. Shands, M.D.); the narcissistic person of our time (J. Kovel, M.D.); and reflections of a would-be adolescent diagnostician (E. Dulit, M.D.)

Psychiatry PM 300. Psychiatry departmental conference at the Harlem Hospital Center

Sept through May. Wed 1-2. No fee. (1 hour each conference)

Drs. Austin Moore and I.J. Averbach, associates, and guest speakers. Harlem Hospital Center (M.L. King Pavilion, 2nd-floor auditorium).

Weekly departmental conferences with experts, chosen for stimulating and effective modes of presentation, to improve skills in diagnosis, management, and treatment of in-patient population. Subjects for 1980-1981 academic year: (1) the chronic medical patient; (2) hospital psychiatry; (3) forensic psychiatry; (4) psychosomatic medicine; (5) diagnosis; (6) family therapy; (7) group therapy; (8) brief individual therapy; (9) therapy of sexual disorders; (10) issues pertaining to the field of child and adolescent psychiatry. Complete array of audio-visual equipment available.

Psychiatry PM 700. Grand rounds at Manhattan Children's Psychiatric Center July 1980 through June 1981. Tu 10-11:30. No fee. (1½ hours each session)

Drs. Leonel Urcuyo and Joel Katz, associates at Columbia University, New York University, and Cornell Medical College, and guest lecturers. Manhattan Children's Psychiatric Center (Ward's Island, New York City; main building, 2nd-floor conference room).

A wide variety of topics aimed at two goals: (1) application and understanding of pertinent studies and newer data presented in lectures; (2) aid in assessing and treating cases similar to most difficult ones presented in clinical grand rounds at Manhattan Children's Psychiatric Center.

Community and Social Psychiatry

Specialized training in community and social psychiatry, both degree and nondegree programs, is offered by the Division of Community and Social Psychiatry under the joint auspices of the Department of Psychiatry and the School of Public Health. Five categories of training and individualized curricula are available. The training is primarily designed for physicians, at various levels of psychiatric training and experience, to provide them with the necessary background for assuming responsibility for implementation of comprehensive community mental health services, with emphasis on program planning, administration, consultation, social psychiatry research and program evaluation. Detailed information about this training opportunity is available upon request from the Director, Division of Community and Social Psychiatry, 112 Black Building, 630 West 168th Street, New York, N.Y. 10032.

Psychoanalysis

Continuing education courses for psychiatrists, psychologists, social workers, and other psychotherapists who wish to use psychoanalysis in their mental health practices will be announced at a future date; please contact the Center for Continuing Education in the Health Sciences, 630 West 168th Street, New York, N.Y. 10032; telephone (212) 694-3682.

Specialized training in psychoanalysis, four years in duration, is offered at the Center for Psychoanalytic Training and Research and the Department of Psychiatry, Faculty of Medicine. A special bulletin regarding this training may be obtained upon request to the Director of the Center, 722 West 168th Street, New York, N.Y. 10032.

Radiology

Radiology PM 2. The physics of diagnostic radiology

January through May. Tu 4:30-5:30. \$175. Residents, \$75. (20 hours)

Dr. P. Joseph. Columbia-Presbyterian.

A self-contained course covering those aspects of radiological physics of importance in diagnostic radiology. Lectures include mechanisms of production of x-rays and their interaction with matter. Roentgen dosimetry, and principles of radiation protection. Special emphasis given to physical phenomena which influence the image of diagnostic radiographs, such as scatter, photographic film, resolution, and quantum mottle. Special topics such as Cine, T.V., Tomography, and Computerized Tomography are discussed.

Radiology PM 3. Radiology of bones and joints

Three and one-half days, dates and times to be announced. \$275. (24 hours)

Dr. Frieda Feldman, associates, and guest lecturers. Location to be announced.

For radiologists, orthopedists, and rheumatologists. Basic concepts of skeletal radiology and related pathology, physiology, and treatment of skeletal disease. Special and current techniques including computer tomography, angiography, arthrography, and radionuclide scanning discussed.

Radiology PM 6. Nuclear medicine

July 1980 through June 1981. Wed 8-9 a.m. \$175. Residents, \$75. (22 hours)

Dr. Rashid Fawwaz and staff. Columbia-Presbyterian. (Babies Hospital, X-Ray Conference Room 3-328).

Open to physicians with some experience or training in nuclear medicine. The clinical applications of nuclear medicine. Analysis of static, dynamic, and computer-generated scintillation images, considered together with the physics of radio nuclides and quality control of radiopharmaceuticals and instrumentation.

Radiology PM 20. Radiation therapy

Twenty-two sessions. September through January. Wed 8-9 a.m. \$175. Residents, \$75. (22 hours)

Dr. C. Chang and associates. Columbia-Presbyterian.

A series of didactic lectures and demonstrations covering the principles, new techniques, and latest results of clinical cancer radiotherapy. The role of radiation therapy in the interdisciplinary approach in cancer management is emphasized.

Radiology PM 21. Radiobiology

Twelve sessions. Sept through Dec. Tu 4:30-5:30. \$175. Residents, \$75. (12 hours)

Dr. E. Hall. Columbia-Presbyterian (Radiotherapy Conference Room, Presbyterian Hospital)

Designed primarily for radiology residents preparing for their boards. The effects of ionizing radiation on living systems, with special reference to the response of normal tissues and tumors of relevance to radiotherapy, and the late effects of radiation in radiodiagnosis.

Radiology PM 24. Radiology conferences: current concepts in diagnostic imaging

Oct through May. Wed 5-6. No fee. (1 hour each conference)

Dr. William B. Seaman, associates, and guest lecturers. Location to be announced.

Selected lectures by speakers prominent in their fields for residents and the practicing radiologist to update their knowledge in light of advancing technology.

Radiology PM 25. Conferences in pediatric diagnostic radiology for hospital radiologists

Sept through May, second Tuesday, 7:15-9:30 p.m. No fee. (18 hours total)

Dr. David H. Baker, associates and guest lecturers.

Presentation of interesting cases with discussion of new diagnostic approaches and use of special procedures. The program reviews in depth the field of pediatric radiology with emphasis on new concepts and techniques of radiological diagnosis.

Radiology PM 100. Current topics in radiology at St. Luke's Hospital Center July 1980 through June 1981. Tu and Th 11-12. (1 hour each session)
Dr. Nathaniel Finby, staff, and guest lecturers.

Radiology PM 101. Ultrasound-computed tomography conference at St. Luke's Hospital Center July 1980 through June 1981. Wed 11-12. (1 hour each conference).
Dr. Nathaniel Finby, staff, and guest lecturers.

Radiology PM 102. Radiology/Pathology correlation conference at St. Luke's Hospital Center July 1980 through June 1981. First three Wednesdays of each month, 1:30-2:30. (1 hour each conference).
Dr. Nathaniel Finby, staff, and guest lecturers.

Radiology PM 103. Radiology lectures at St. Luke's Hospital Center July 1980 through June 1981. Fri 11-12. (1 hour each conference).
Dr. Nathaniel Finby, staff, and guest lecturers.

Surgery

Surgery PM 1. Surgery lecture series Sept through June. Th 4:30-5:30. No fee. (1 hour each conference)
Dr. Keith Reemtsma, staff, and guest lecturers. Columbia-Presbyterian (Humphreys Amphitheater, Vanderbilt Clinic, 14th Floor).
 Open to physicians, nurses, and allied health personnel. Lectures on recent developments and current investigative work related to clinical surgery.

Surgery PM 4. Combined staff conference of the thoracic and cardiac surgical service Sept through May. Second Sat of each month, 8:30-10:30. No fee. (2 hours each conference)
Dr. James R. Malm, associates, and guest lecturers.
 Clinical and scientific presentations by thoracic and cardiovascular surgeons based on clinical experience and research, as well as current topics of interest in the specialty. Formal presentations followed by discussion.

Surgery PM 5. Plastic surgical conference July 1980 through June 1981. Mon 8-9. No fee. (1 hour each conference)
Dr. Thomas J. Krizek, staff, and guest lecturers. Columbia-Presbyterian (Humphreys Amphitheater, P&S 14-240)
 Two-year program for plastic surgical residents and those in ongoing practice of plastic surgery. In-depth discussions by experts in all facets of the basic sciences and clinical applications of plastic and reconstructive surgery. Topics based on the overall spectrum of plastic surgery as identified by the American Board of Plastic Surgery.

Surgery PM 6. Surgical service trauma symposium July 1980 through June 1981. Last Friday of each month, 8-9. No fee. (1 hour each conference)
Drs. Keith Reemtsma and Roman Nowygrod, staff, and guest lecturers. Columbia-Presbyterian (Humphreys Amphitheater, P&S 14-240).
 The diagnosis and management of thoracic, abdominal, musculoskeletal, vascular, and urological trauma. Formal talk followed by discussion of the topic presented and related trauma problems.

Surgery PM 7. Vascular rounds July 1980 through June 1981. Tu 7:30-8:30 a.m. No fee. (1 hour each session)
Dr. Arthur B. Voorhees, Jr., staff, and guest lecturers. Columbia-Presbyterian (P&S 14-420).
 Formal teaching exercise and quality control mechanism devoted to problems arising from peripheral vascular disease, deformity, or injury. Provides teaching of vascular surgery as a discipline to senior surgical residents and vascular surgical fellows.

Surgery PM 12. Whipple rounds

July 1980 through June 1981. Wed 8-9 a.m. No fee. (1 hour each session)

Dr. Alfred M. Markowitz and staff. Columbia-Presbyterian (P&S 14-420).

An update of topics of interest to the general surgeon including malignant hyperthermia in the surgical patient; early carcinoma of the stomach; chemotherapy of G.I. neoplasm; needle biopsies in thyroid malignancies; the selection of operation for breast tumor; and other problems encountered by the general surgeon.

Surgery PM 13. Lockwood rounds

July 1980 through June 1981. Th 8-9 a.m. No fee. (1 hour each session)

Dr. Frank Gump and staff. Columbia-Presbyterian (P&S 14-420).

Weekly rounds for the Lockwood Surgical Service. A discussion of death and complications in the session's first part with the remainder devoted to a surgical topic. Presentation is based on a patient or clinical problem currently on the Service and is made by the person considered to be the most knowledgeable in the Columbia-Presbyterian Medical Center, including members of other departments. Course offers an updated review of the status of a disease, its therapy, and diagnostic techniques.

Surgery PM 14. Pediatric surgery teaching conference

July 1980 through June 1981. Tu 4:30-5:30. No fee. (1 hour each conference)

Dr. Thomas Santulli, staff, and guest lecturers. Columbia-Presbyterian (BH 9 South Conference Room).

Continuing education in pediatric surgical subjects and related areas.

Surgery PM 15 (also Pathology PM 12). Pediatric surgery pathology conference and seminar

July 1980 through June 1981. Wed 8:30-9:30 a.m. No fee. (1 hour each conference)

Drs. Thomas V. Santulli and William Blanc and staff. Columbia-Presbyterian (BH Pathology Conference Room, BHS, T-12).

An update of pediatric surgical problems including a weekly review of pediatric surgical pathology specimens and lectures on pediatric surgical subjects.

Surgery PM 16. Pediatric surgery conference and grand rounds

July 1980 through June 1981. Th 2-4. No fee. (2 hours each conference)

Dr. Thomas V. Santulli and staff. Presbyterian Hospital (B.H. 1-105, MacIntosh Conference Room).

Diagnosis and treatment of pediatric surgical problems with discussion of recent literature.

Surgical Specialties at The Roosevelt Hospital

During the academic year, in the following courses, *Surgery PM 200* through *PM 206*, a broad overview of current knowledge in each surgical specialty is presented to address the needs of the attending and house staffs and of visitors to these conferences. Complete presentations include a historical review, current concepts, and differing points of view. Didactic presentations, panel discussions, illustrative case presentations, audiovisual materials, and audience discussion are included.

Surgery PM 200. Surgical grand rounds at The Roosevelt Hospital

July 1980 through June 1981. Tu 4:30-6. No fee. (1½ hours each conference)

Dr. Walter A. Wichern, Jr., associates, and guest lecturers. The Roosevelt Hospital Center (Winston Conference Room).

Surgery PM 201. Surgical staff conference at The Roosevelt Hospital

July 1980 through June 1981. Wed 4:30-6. No fee. (1½ hours each conference)

Dr. Walter A. Wichern, Jr., associates, and guest lecturers. The Roosevelt Hospital (Winston Conference Room).

Surgery PM 202. Surgical trauma grand rounds at The Roosevelt Hospital

July 1980 through June 1981. Th 7:30-8:30 a.m. No fee. (1 hour each session)

Dr. Walter A. Wichern, Jr., associates, and guest lecturers. The Roosevelt Hospital (5th-floor X-Ray Department Conference Room).

Surgery PM 203. Hand reconstructive surgery grand rounds at The Roosevelt Hospital

July 1980 through June 1981. Tu 12-1:30. No fee. (1½ hours each session)

Dr. Walter A. Wichern, Jr., associates, and guest lecturers. The Roosevelt Hospital (5th-floor X-Ray Conference Room).

Surgery PM 204. Head and neck surgery grand rounds

July 1980 through June 1981. One Wednesday each month, 4:30-5:30. No fee. (1 hour each session)

Dr. Walter A. Wichern, Jr., associates, and guest lecturers. The Roosevelt Hospital (Pathology Library)

Surgery PM 205. E.N.T. Surgery grand rounds at The Roosevelt Hospital

July 1980 through June 1981. Wed, 5-6. No fee. (1 hour each conference)

Dr. Walter A. Wichern, Jr., associates, and guest lecturers.

Surgery PM 206. Ophthalmologic surgery grand rounds

July 1980 through June 1981. One Thursday each month, 4:30-6, dates to be announced. No fee. (1½ hours each conference)

Dr. Walter A. Wichern, Jr., associates, and guest lecturers. The Roosevelt Hospital (Winston Conference Room)

Surgery PM 207. One-day hand surgery course

Date to be announced. 9-3. \$50. Residents \$35. (5 hours)

Dr. Richard G. Eaton and staff. St. Luke's-Roosevelt Hospital Center (Winston Conference Room).

For primary care physicians and general, plastic, and orthopedic surgeons, instruction in the fundamental concepts in the care of acutely injured hands ranging from tendon injuries to fractures and burns. Didactic lectures with discussion periods and illustrative case presentations for audience participation.

Surgery PM 303. Trauma symposium on life-threatening injuries, presented by the Harlem Hospital Center

Two days in June. Dates, fees, and location to be announced.

Dr. Harold P. Freeman, associates, and guest lecturers. (14 hours)

Various aspects of surgical trauma: salvaging a live patient, life-threatening cardio-thoracic injuries, abdominal injuries, and management of post-traumatic complications and organ failure.

Surgery PM 304. Combined infectious disease and surgery conference at the Harlem Hospital Center.

Sept through June, one Wednesday each month, 3:30-5, dates to be announced. (1½ hours each conference)

The relationship of infectious diseases to surgical problems.

Surgery PM 305. What's new at Harlem Hospital

One day, date and time to be announced. No fee. (5½ hours)

Dr. Harold P. Freeman, associates, and guest lecturers. Harlem Hospital Center (M.L. King Pavilion, 2nd-floor auditorium).

Topics related to the most current developments in modern surgery presented.

Surgery PM 306. Tumor conferences at the Harlem Hospital Center

July 1980 through June 1981. Third Friday of each month, 11-1. No fee. (2 hours each conference)

Drs. Harold P. Freeman and Robert Morton, staff, and guest lecturers. Harlem Hospital Center.

The entire subject of cancer and related problems, involving all the major departments of the hospital. Broad-based discussion and in-depth coverage of each topic. The presence of attending and house staff members as well as community physicians encouraged.

Surgery PM 307. Surgery lecture series

July 1980 through June 1981. Wed 3:30-5. No fee. (1½ hours each lecture)

Dr. Harold P. Freeman, staff, and guest lecturers. Harlem Hospital, Martin Luther King Pavillion (Auditorium, 2nd floor).

Designed for attending and resident staff to keep them informed of recent surgical advances. Topics include pseudocyst of the pancreas, reflux oesophagitis, soft tissue tumors, primary hyperaldosteronuria, and rational use of new synthetic cephalosporin.

Urology

Urology PM 2. Urology lecture series

September through June. Two Thursdays each month, 5-6:30. No fee. (1½ hours each lecture)

Drs. J. Birkhoff, J. Lattimer, and guest lecturers. Columbia-Presbyterian (Presbyterian Hospital Stem Room 10-124).

Designed for residents and practitioners.

Two-year program covering major topics in urology and related fields, including basic knowledge and current advances.

Urology PM 3. Review course in urologic pathology and radiology

Five days, Jan 14-18. Wed-Sun 8-5. \$450. Residents from affiliated institutions, \$360. (40 hours)

Dr. Myron Tannenbaum, associates, and guest lecturers. Columbia-Presbyterian.

Open to all urologists who are preparing for the second part of the Urology Board Examinations which covers urologic pathology and urologic radiology. An intensive course which includes a survey of the minor and major surgical pathologic problems in the GU system and a comprehensive review of diagnostic radiology of the GU tract. Emphasis on Kodachrome recognition of infectious, benign, and malignant diseases of the urogenital system. Pathology, cytology, and radiology reviews of the prostate, urinary bladder, kidney, testis, adrenals, and associated structures dealt with in depth.

Urology PM 4. Urology visiting professorship: Dr. John Grayhack.

Dec 4-5. Th-Fri, 9-5. No fee. (11 hours)

Drs. John K. Lattimer and Myron S. Roberts, staff, and visiting professor. Columbia-Presbyterian.

To acquaint house and attending staff with new and interesting work done at other institutions and also to discuss different approaches to the management of difficult urological problems. Didactic lectures, presentation of challenging cases for review, evaluation, and interpretation by the visiting professor, who also demonstrates a surgical procedure (viewed via closed-circuit television) with careful explanation and discussion. A number of different topics covered utilizing a variety of instructional techniques.

Urology PM 5. Pediatric urology update series

Sept through June. First Tuesday of the month, 7-8 a.m. No fee. (1 hour each conference)

Drs. John K. Lattimer and Terry W. Hensle, staff, and guest lecturers. Columbia-Presbyterian (Presbyterian Hospital, Melicow Library, 10-floor stem).

For resident and attending staff, exploration in depth of subjects and problems in pediatric urology. Current topics of interest and controversy in pediatric urology presented, including formal lectures as well as clinical and research materials with open discussion.

Urology PM 6. Urology grand rounds

July 1980 through June 1981. Tu 7-8:15 a.m. No fee. (1 hour each session)

Dr. John K. Lattimer, staff and guest lecturers. Columbia-Presbyterian (10 stem, Melicow Library).

Designed for residents and practitioners. Lectures and case discussion on major subjects in urology. Presentation of x rays and morbidity and mortality also included.

Urology PM 7. Interdepartmental urologic tumor conference

July 1980 through June 1981. Th 12-1:30. No fee. (1½ hours each session)

Dr. Ralph J. Veenema, staff, and guest lecturers. Columbia-Presbyterian (10 stem, Melicow Library).

Expands the knowledge of residents and practitioners in the management of urologic cancer. Participation is encouraged from faculty, residents, and medical students in urology, radiotherapy, oncology, and pathology.

Urology PM 100. Urology staff conference at St. Luke's Hospital Center

Sept through June. Th 4-5. No fee. (1 hour each conference)

Dr. Russell W. Lavengood, staff, and guest lecturers.

Urology PM 200. Urology staff conference at The Roosevelt Hospital Center

July 1980 through June 1981. Th 8-9 a.m. No fee. (1 hour each conference)

Dr. William J. Nelson, staff, and guest lecturers.

To acquaint staff faculty members, residents, and medical students with different approaches to routine and unusual urological problems. Topics include case history reviews, evaluation of surgical techniques, x-ray interpretation, morbidity and mortality review, and specific didactic lectures.

Urology PM 300. Urology grand rounds, conferences, and lectures at Harlem Hospital Center

Sept through June. Wed 12:30-3. No fee. (2½ hours each session)

Drs. John K. Lattimer and Harold A. Garnes, staff, and guest lecturers. Harlem Hospital Center (M.L. King Pavilion, Room 10-101).

For residents and the practicing urologist, to enable the physician to be well-versed in the handling of disease problems in the general practice of urology. Introduction and discussion of new treatment concepts. Conferences, lectures, and teaching rounds on major subjects in clinical urology and related fields.

Urology PM 800. Neoplastic and nonneoplastic condition of the bladder and prostate gland

Feb 9-12. \$300. (17 hours)

Cosponsored by Boston University. Drs. Carl Olsson and Ralph White, staff, and guest lecturers. Smugglers' Notch, Vermont.

For practicing urologists, an update on the subject and open discussion between course participants and faculty.

Nursing: Postgraduate Education

Opportunities for continuing nursing education beyond basic preparation are offered by the School of Nursing through three kinds of programs:

1. The baccalaureate program for registered nurses who are diploma school or associate degree graduates.
2. The Master of Science degree program with clinical specialization in several tracks.
3. Continuing education through special short courses or one-day seminars for nurses who wish to update their knowledge and expertise. These may be in general nursing concepts or in specialty areas.

Baccalaureate Education for Registered Nurses

Registered nurses who are diploma school or associate degree candidates are encouraged to seek early counseling for appropriate placement. Candidates must be prepared to meet bachelor's degree requirements of 60 liberal arts credits of which biology, chemistry, English, psychology, and sociology are mandatory. Advanced standing in the nursing major may be sought through challenge examinations given by the School and specific college proficiency examinations.

Master of Science Degree Programs

All graduate programs designed for clinical specialization require a two-year (or four-term) course of study.

The emphasis in all areas of concentration is to provide each student with intensive insight and competence to perform as a clinical specialist. Graduate degree applicants are expected to explore courses in related disciplines such as basic sciences, social sciences, and public health.

Master of Science tracks include Adult Nurse Practitioner, Gerontology, Maternity Nursing-Nurse Midwifery, Nurse Anesthesia, Pediatric Nursing (Ambulatory Care), Pediatric Nursing (Pulmonary Care), Perinatal Nursing, Psychiatric-Community Mental Health Adult/Child. All programs are accredited by the National League for Nursing. The School of Nursing is a member of the Department of Baccalaureate and Higher-Degree Programs of the National League for Nursing.

The bulletin and individual brochures giving more details about programs will be sent upon request. Address requests to:

Office of Admissions
School of Nursing
Columbia University
179 Ft. Washington Avenue
New York, N.Y. 10032
Telephone: (212) 694-2806

Continuing Education Programs

The Faculty of the School of Nursing accepts the obligation to provide knowledge, to stimulate learning, to serve as resource persons, to be innovators in nursing, and to contribute to the development of human values. Learning is viewed as a lifelong process, and learners are considered to be self-directed and accountable for their performance.

To this end, the Faculty has accepted the responsibility to provide for continuing education for nurses to enable them to update knowledge and expertise. The School of Nursing has begun to offer short courses and one-day workshops and seminars, often in cooperation with clinical personnel from affiliated agencies. At present, no university credit or certificates are granted, although a statement of attendance is issued upon completion of the course; this statement satisfies states' requirements for continuing education units.

Nursing: Courses of Instruction

Nursing PN 1. Nursing care of the high-risk neonate

A one-week course offered four times in 1980-1981: dates to be announced.

\$185, including textbook.

Registration in each course limited to 6 registered nurses with a minimum of 8 months experience who are currently employed in nurseries and neonatal units. A basic course designed for neonatal nurses from Level I and Level II hospitals who are primary caregivers for normal and high-risk newborns and their families. A one-week (35 hour) program of theory and clinical observation, utilizing lectures, small group discussions, independent study, and nursing rounds. Faculty includes staff from the neonatal units, Babies Hospital, Columbia-Presbyterian Medical Center, and graduate students and faculty members, Perinatal Nursing Program, Columbia University.

Nursing PN 6. Workshop in family therapy

February 6, 1981. Fri 8:30-5. \$55. Resident Nurses \$20. (8 contact hours)

Mary Ann Feldstein, R.N., M.A., C. Christian Beels, M.D., Robert P. Parkin, M.D., and Penelope Bushman, R.N., M.A. Columbia-Presbyterian (Alumni Auditorium).

For nurses, physicians, psychologists, social workers, and other professionals who wish to increase their knowledge and skill in working with families. Focuses on the family as a unit of treatment. Basic concepts, family assessment, and a family interview included. Lecture topics include the schizophrenic family, the family with a child with a serious illness, the single parent family, and families with children.

Nursing PN 7. Basic cardiac life support

October 7, 9, and 14-16. 6-8 p.m. \$50. (8 contact hours)

Linda Brent, R.N. and Ruth Korn, R.N. Columbia-Presbyterian.

A formal introductory course to assure a common grounding in the principles and practice of cardiopulmonary resuscitation. Participants receive certification, according to the guidelines of the American Heart Association, at the completion of the course. Topics include recognition of symptoms of cardiac arrest, initiation of CPR, and emergency care systems. A written examination follows.

Nursing PN 8 (also Dermatology PM 3). Clinical nursing techniques in dermatology

Oct 2-3, 1980. Thurs-Fri, 8:30-5. \$90. (13 hours; approved for 13 contact hours by the New York and the New Jersey State Nurses Association)

Eileen E. Leach, R.N., Jeannette E. Anders, R.N., Leonard C. Harber, M.D., and staff. Columbia-Presbyterian (Anthony N. Domonkos Conference Room, Vanderbilt Clinic 5-557)

Acquaints the professional nurse with skin, the largest organ of the body, and with dermatologic care. Lectures by the attending staff of the Department of Dermatology and the dermatology nurse specialists of the hospital review the structure, function, and terminology of the skin and specific disease entities. Common dermatoses as well as life-threatening skin diseases from infancy to adolescence included. Emphasis on nursing assessment and appropriate intervention. Opportunity for individualized instruction offered in six different seminars.

Information on additional courses will be available at a future date. Contact the Center for Continuing Education in the Health Sciences; telephone (212) 694-3682.

Public Health: Continuing Education

Courses in the Program of Continuing Education of the School of Public Health focus on the practicing public health professional. This includes physicians, nurses, health administrators, managers, educators, and others. Many of the courses are collaborative efforts between the Program of Continuing Education and official and voluntary health agencies and institutions. These courses do not normally carry credit toward a degree. Those wishing to receive academic credit may apply to the School of Public Health as *special students*. If they meet admission criteria and are accepted, special arrangements are made through the Program in Continuing Education to provide course material and faculty time, on an individual basis, sufficient to justify the granting of University credit.

Public Health PH 6. A review of parasitic diseases for clinicians
Oct 17-19, 1980. Fri-Sun, 8-5. \$175. Residents, \$100. (18 hours)

Drs. Dickson D. Despommier, Philip A. D'Alesandro, staff, and guest lecturers.

For practicing physicians, diagnostic technicians, and academicians, for updating on parasitic diseases and enhancing general awareness of their importance in public health. A review of current biological, diagnostic, and therapeutic aspects of a variety of important parasitic diseases frequently seen in the United States. These diseases include amoebiasis, giardiasis, trichomoniasis, toxoplasmosis, malaria, enterobiasis (or pinworm), strongyloidiasis, ascariasis, hookworm disease, trichinellosis, and medically important arthropods (lice, ticks, fleas, spiders).

Public Health PH 7 (also PH 9414). Cancer epidemiology course
January through May. Tu 1:30-3:30. (2 hours each session)

Mary McCrea Curnen. Columbia-Presbyterian.

Public Health PH 8. International training: family planning, nutrition, and primary health care in developing countries

June 1-30. 9-5. \$1,200. (154 hours)

Dr. Allan Rosenfield, staff, and guest lecturers. Columbia-Presbyterian.

Intensive four-week course on program design, management, evaluation for integrated family planning, nutrition, and primary health care services in developing countries. Increases the epidemiologic, demographic, and management skills required for the design, implementation, and evaluation of community-oriented programs for low income groups in developing country, urban-slum, and rural areas. Content includes approaches to the assessment of community needs and resources; selection of program design strategies; review of specific problems and interventions; management, research, and evaluation issues. Lectures, discussion, case study, and seminar work groups.

Information on additional courses will be available at a future date. Contact the Center for Continuing Education in the Health Sciences; telephone (212) 694-3682.

Allied Health: Continuing Education

Program in Physical Therapy

Physical Therapy is the professional health science and service which contributes to the comprehensive care of physically disabled people. It is involved with the preservation of functional capacity, restoration of function, and the prevention of disability because of disease, injury, or loss of a limb.

The student in the program of study leading to the Certificate of Proficiency in physical therapy is expected to have a broad background in general education, including knowledge of the fundamental principles of the social, biological, and physical sciences. In addition to demonstrations, laboratory practice, case presentation, and theoretical information, there is clinical instruction and field experience in teaching hospitals under University supervision. The Certificate program is accredited by the Council of Medical Education of the American Medical Association in collaboration with the American Physical Therapy Association. Students and graduates are eligible for membership in the American Physical Therapy Association. Graduates are also eligible to take state licensure examinations in physical therapy.

Additional detailed information about the Certificate of Proficiency in physical therapy may be obtained by writing to the Director of Physical Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032.

Program in Occupational Therapy

Occupational Therapy is the art and science of directing man's response to selected activity to promote and maintain health and to prevent disability, by evaluating behavior and treating or training patients with physical or psychosocial dysfunction.

The Occupational Therapy Program at Columbia leads to the degree of Master of Science and is directed toward the development of master clinicians and leaders in the field by providing an opportunity for the establishment of a generic foundation, followed by the acquisition of basic concepts of administration, supervision, and education, by development of concepts and techniques in the scientific method.

The Master of Science degree program meets the requirements set forth by the American Occupational Therapy Association and by the Council on Medical Education of the American Medical Association. Graduates of the program are eligible for the certification examination leading to admission to the Registry of Occupational Therapists, maintained by the American Occupational Therapy Association.

Requests for further information on the Master of Science degree program should be addressed to the Director of Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032.

Allied Health: Courses of Instruction

Information on courses will be available at a future date. Contact the Center for Continuing Education in the Health Sciences; telephone (212) 694-3682.

School of Dental and Oral Surgery: The Postgraduate Program

Continuing Education Courses

Consistent with the belief that a lifetime of learning is necessary for continued competence in the health professions and that dental education must be a continuum which extends throughout the professional career, the School of Dental and Oral Surgery offers a program of short courses of varying lengths on diverse subjects.

These continuing education courses are given at irregular times throughout the academic year and are announced by special brochures, notices in the journals, and special mailings. Courses may range in length from one day to one week or may meet once a week for an entire term. They are designed to enable the practitioner to review and continue his or her educational experience in fields where research and its clinical application present constantly changing concepts of prevention, diagnosis, and treatment. These short courses acquaint the participant with the latest advances in the various fields of dentistry. Continuing education credits are offered to those who attend.

Courses Which May Be Audited

In addition, a number of courses among those listed under the *D.D.S. Program* and *Postdoctoral Programs in Dental Specialties* in the bulletin of the School of Dental and Oral Surgery are specially designated for *audit* as continuing education courses. These courses are available for attendance by nonmatriculated practitioners and other professionals through the Division of Continuing Education and are described in periodic continuing education brochures and announcements. A listing of these courses appears below.

Study Clubs

A number of Study Clubs are sponsored by the Dental School. Some of these clubs meet at the Columbia-Presbyterian Medical Center while others have membership and meeting locations in suburban locations. Columbia University faculty members serve as Study Club leaders. These clubs meet once a month during the academic year and offer 1.6 CEUs for full attendance.

For Visitors and Visiting Scholars to the School of Dental and Oral Surgery

Qualified students are offered the opportunity for guided study, attendance, and observation of clinical and classroom education under the direction of a faculty member for variable periods during the school year, not necessarily corresponding to regular academic intervals. Faculty members of other institutions may be granted visiting scholar privileges, which include auditing clinic and classroom courses (as approved by the course instructor), attending lectures, and participating in seminars with the approval of the appropriate faculty member.

These opportunities are offered without credit. A special fee is determined after consultation with the Director of Continuing Education and depends on the courses audited and the length of time to be spent in attendance. No official records of attendance are kept, and no transcript certifying attendance or work undertaken is provided by the registrar. Arrangements for enrollment are made directly with the Director of Continuing Education at the address below.

Graduate Training of Resident Pedodontists

The program in postdoctoral pedodontics at Columbia University School of Dental and Oral Surgery is designed to prepare the student for an active role in clinical practice, education, and research. The fully accredited curriculum provides a strong basic science education and a wide-based clinical exposure to a variety of patient types and practice settings. During the two-year program of study leading to a Certificate of Training, the student is prepared to enter any of the subspecialties of pedodontics such as dentistry for the child, geriatric, and disabled patients in either a private practice, teaching, or research setting. Upon completion of the program, students are eligible for certification by the American Board of Pedodontics.

The program consists of a twenty-four-month period commencing on or about the second week of September, and continuing through the second week of July of the second year. Academic holidays are observed and there are no weekend or evening classes. Applications for the upcoming session are accepted through January. Detailed information about the program, tuition, and admission procedures can be obtained by writing to the Continuing Dental Education Program (address below).

Continuing Dental Education Credits

Courses listed below are recognized for credit toward requirements for state relicensure, where applicable, for the Academy of General Dentistry or for organizational memberships. Credits are recorded in both hours and Continuing Education Units. One hour of instruction is the equivalent of 0.1 CEU.

Inquiries

Please see the beginning of this bulletin for general information on the admission requirements and procedures and statements of attendance and nondiscriminatory policies. Requests for application forms and inquiries concerning continuing dental education courses, schedules, and fees should be directed to Dr. Robert Gottsegen, Director of Continuing Education, School of Dental and Oral Surgery, Columbia University, 630 West 168th Street, New York, N.Y. 10032, telephone (212) 694-3865, or to the Center for Continuing Education in the Health Sciences, Mr. Thornton Davidson, telephone (212) 694-5790.

School of Dental and Oral Surgery: Courses of Instruction

CDE 176. Advanced skills in periodontics for the dental hygienist

Sept 24 through Jan 14. Wed 1:30-4:30. \$400. (42 hours)

Dr. Douglas Marion, Nancy McVay, R.D.H., M.S., and staff.

Expands the role of the dental hygienist in dental practices in which periodontics is an important part. Training in advanced skills in periodontics enables the hygienist to become a more capable, knowledgeable, and active member of the periodontal treatment team. Lectures, demonstrations, and clinical practice included. Based on a similar course in California, approved by the state's Board of Dental Examiners, this course has been conducted at Columbia University for the past two years with great success. Preventive-oriented and periodontally aware general dentists and periodontists may wish their hygienists to take this course to increase their effectiveness in office practice.

CDE 700. Periodontics: theory and practice

Sept 10 through Jan 7. Wed 1-4:30. \$950. (56 hours)

Drs. Stephen F. Goodman, Robert Gottsegen, Melvin Morris, Alan Lubarr, and Murray Schwartz.

For dentists who are seriously interested in periodontics as a vital component of general practice. Course is not designed to train specialists, but enables the practitioner to provide a better and more sophisticated level of service and to practice general restorative dentistry, oriented toward periodontal health.

Each session is a one-hour lecture-seminar followed by a 2½ hour clinic. Topics include the biological background of periodontal disease, occlusion, and the techniques of periodontal therapy with treatment planning used as a learning focus. The clinical sessions consist of examining, diagnosing, and planning of appropriate treatment for patients with different types and severity of periodontal disease using a variety of surgical procedures while under the close supervision of the periodontics faculty members.

Participants are urged to provide patients from their private practices. In this way, deserving patients can be offered sophisticated and advanced periodontal care under expert supervision at low cost while providing the doctor with an opportunity of caring for his "special case" patients without sacrificing his own office time. Furthermore, the participant-dentist can accomplish periodontal preparation on patients for whom he may be planning restorative dentistry. Patients from private practices are registered in the School Clinic and are required to pay an administrative fee of \$20 per clinic treatment session. When necessary, patients are assigned from the clinic patient pool.

CDE 230. Endodontic microbiology

Sept 27. Sat 9-5. *\$80, includes luncheon. (7 hours)

Dr. Irving Naidorf.

The host-parasite relationship in endodontic infections and laboratory methods for the diagnosis of the etiology of troublesome cases discussed. Antibiotic sensitivity testing and anaerobic methodology used in the dental office described. A review of traditional concepts in bacterial physiology and sterilization as a basis for modern concepts.

CDE 231. Endodontic immunology

Sept 28. Sun 9-5. *\$80, includes luncheon. (7 hours)

Dr. Irving Naidorf.

An overview of immunology serving as a background for updating participants on the newer findings in immunology, some of which have not yet been published. The possible clinical relevancy of immunological aspects of endodontics covered. Questions, answers, and group discussions included.

CDE 150. Principles and practice of auxiliary utilization in four-handed dentistry

Oct 8-22; Nov 12-26. Wed 9-5. \$255 (for each dentist and one auxiliary), \$30 (each additional auxiliary). (21 hours)

Drs. David Kaplan and Joseph Kafer.

A three-day lecture, demonstration, and participation course for practitioners and auxiliaries who are new to four-handed, sit-down dentistry, and for those who have experienced difficulty trying to operate in this mode. The development of seated dental treatment, its problems and pitfalls, and how they relate to current practice illustrated. The basic principles governing successful supine patient treatment and its application to all phases of dental care presented with step-by-step analysis and evaluation of office management procedures relative to efficient chairside operations, the training of personnel in four-handed techniques, chairside operations, space and equipment utilization, and the introduction of new techniques to a practice. The clinic practice sessions train the doctor and his or her auxiliaries, separately and then together, under the supervision of the D.A.U. Program faculty and staff. Every effort is made to relate the chairside clinical practice session to the student's individual techniques.

The keynote of the course is planning: the role of the office staff, from patient reception through scheduling, preplanned instrument trays, operating techniques, and auxiliary utilization to equipment and inventory control.

Dentists must be accompanied by at least one (1) chairside auxiliary. A maximum of two (2) auxiliaries for each dentist can be accepted. The registrant must indicate on the application form which series (October or November) he or she wishes to take.

CDE 810. The art of composite resin: the versatile material of the eighties

Oct 11. Sat 9-5. \$80, includes luncheon. (7 hours)

Dr. David Hendell.

Since its beginning twelve years ago as a Class III and V filling, composite resin is now being utilized in the most complex aspects of restorative dentistry. Where the cost of full coverage restorations continues to rise, the cost of composite resin remains within the financial reach of most patients.

Composite resin is used in the repair of fractured anterior teeth and replaces gold and silver as the material for build-up of cores in mutilated endodontically treated teeth. In addition, resin has been used successfully as a color corrective material in cases of tetracycline and fluoride stains and genetically

**SPECIAL FEE: A combined reduced fee of \$145 is available for those registrants wishing to take both CDE 230 and CDE 231*

malformed or stained teeth. The use of periodontal splinting is a new area of dentistry that is becoming increasingly widespread, and may eventually replace more conventional procedures such as wire ligation or pin splinting.

A survey of the broad spectrum of usefulness of composite resin and acid-etch-bonding, demonstrating the wide variety of situations in which both have proved effective.

CDE 820. Creating useful abutments from wreckage of teeth

Oct 18. Sat 9-5. \$80, includes luncheon. (7 hours)

Drs. Gustav T. Durrer and Alvin J. Grayson.

For the skilled restorative dentist who is interested in furthering his knowledge of sophisticated techniques. Covers the various methods by which a few remaining, badly broken-down teeth—unsuitable as abutments for conventional fixed bridge-work or removable partial dentures—may be salvaged and made into useful supports.

The first part of the course is an in-depth discussion of the subject from the standpoint of the overdenture; the use and function of different constructions and retentive devices, such as bar attachments and various single tooth attachments including the indications, advantages, and disadvantages. The second half covers the salvage of broken-down teeth for abutment use by means of preformed posts, pins and composite cores, cast posts and cores. Lastly, in the extreme situation where all existing abutments have lost periodontal support, a technique is described in which an existing full coverage fixed splint is converted into an immediate transitional complete denture.

CDE 201. Contemporary endodontics: the how and why of root canal preparation

Oct 25-26. Sat-Sun, 9-5. \$150, includes luncheon (\$70 equipment and supplies). (14 hours)

Drs. Abel Moreinis, Marvin Firdman, and Michael D. Lund.

Present knowledge of the complexity of the "root canal system," and the almost universal adoption of gutta percha as a filling material, have led to new concepts of canal preparation. A survey of instruments currently available, both hand-held and engine driven, and instruction on how to use them. A variety of techniques for cleansing and shaping the root canal examined including the selection of an appropriate technique for each of the differing anatomical situations commonly encountered. Emphasis on efficient operation with auxiliary aids to instrumentation considered. Lectures, slides, videotape, and supervised class participation in the lab, working both on transparent plastic blocks with "simulated" root canals and on extracted teeth.

CDE 830. Ceramo-metal, 1980

Nov 1. Sat 9-5. \$80, includes luncheon. (7 hours)

Drs. Joel Goldin and John Scarola.

A comprehensive review of the theory and practice in the creation of fine ceramo-metal restorations. Emphasis on the achievement of optimal aesthetic results compatible with long-term periodontal health and maximum strength of the restoration. All phases of treatment, from diagnosis to custom-staining, discussed and extensively illustrated with slides. Recent advances in metallurgy and metal design also presented as well as a section on trouble-shooting, repair, and long-term maintenance.

CDE 835. Restoration of the esthetic and functional components of a patient's dentition with ease and precision

Nov 8. Sat 9-5. \$80, includes luncheon. (7 hours)

Dr. Robert Davidoff.

For the restorative dentist and his technician, a "how to" course that explores many areas of reconstructive techniques, from the single restoration to the complexities of full mouth rehabilitation. Emphasis on the latest techniques for use by both the dentist and the technician with special attention to ceramics and the current knowledge of materials.

The first phase of the course covers the control of esthetic form by the dentist, including techniques for mapping out the esthetics in the diagnostic and provisional phase along with the method for converting this information into the final restorations. The second phase of the course offers alternative marginal configurations for porcelain-fused-to-metal restorations, including the collarless ceramo-metal restoration. A discussion of various porcelain systems and metal systems, including those that are nonprecious with section on tissue management and cervical esthetics included. Several treatments are presented in detail.

If time permits, two special sections, one covering the use of attachments for fixed, fixed-removable, and removable prosthesis; the other mandibular motion and articulation, will be presented.

CDE 160. Computers in the dental office: everything you should know**Nov 15. Sat 9-5. \$80, includes luncheon. (7 hours)****Dr. Robert Bloom.**

Computers and their use in the private practice office of general dentists. Topics include: (1) when, why, and where is a computer needed in a private practice; (2) how a computer can help the practitioner increase his patient load and income; (3) what a computer will and will not do; (4) advantages and disadvantages of a computerized management system over currently used techniques; (5) how to easily convert an office for as little as \$4,000; (6) how a dentist can program his own computer; (7) the type of equipment available; and (8) other nondental uses for a computer once installed in the office—i.e., word processing.

A working computer is available so that all participants have an opportunity for "hands on" experience in running a computerized dental office management system.

CDE 870. Recent advances in restorative materials: porcelain and alloys; amalgam, composites, and other direct restorative materials**Nov 22. Sat 9-5. \$80, includes luncheon. (7 hours)****Dr. Marc Rosenblum.**

Topics include porcelain, metal, metal-porcelain compatibility, failures in porcelain-metal restorations, amalgam, composites, and new adhesive restorative materials.

CDE 504. Diagnosis and treatment planning for the Begg appliance**Dec 6. Sat 9-5. \$80, includes luncheon and syllabus. (7 hours)****Drs. Malcolm E. Meistrell, Jr. and Thomas Cangialosi.**

Presents the elements of case analysis leading to sound diagnosis. Accurate diagnosis, the most important aspect in the proper management of the varied orthodontic problems confronting dentists in practices, it leads to proper treatment planning and the modification of appliance manipulation required by the individual patient.

A series of cases are offered for diagnosis, with a discussion of the various treatment options for each case and the modifications of appliance manipulation. An integral part of the presentation is audience participation. A laboratory exercise included.

CDE 750. Occlusion: a periodontist's approach to the matter of selective grinding of the natural dentition as a means of modifying occlusal forces**Dec 13. Sat 9-5. \$80, includes luncheon. (7 hours)****Dr. Robert Gottsegen.**

For the clinician who is attempting to find a common denominator in the complex field of occlusion. A step-by-step procedure for selective grinding of the periodontally involved dentition and the usefulness of this approach, in full or in part, to occlusal adjustment of less involved dentitions, to isolated lesions of occlusal traumatism and to general restorative dentistry, including extensive crown and bridge work. These steps serve as guide posts for a critical review of occlusion research and theory. Broad biological concepts with clinical application.

CDE 350. Oral pathology: a comprehensive review**Jan 31 and Feb 7. Sat 9-5. \$150, includes luncheon (\$75 residents and fellows). (14 hours)****Dr. David J. Zegarelli.**

For practitioners interested in oral pathology and for those preparing for the specialty board examination. An advanced, comprehensive course in clinical histologic oral pathology covering numerous disease entities, including their clinical, radiographic, and histologic features. Differential diagnosis of these conditions also stressed. Subject content is organized into a series of mini-lectures, each with ample visual material. Topics include odontogenic tumors, vesiculobullous disease, and keratotic lesions.

CDE 900. Research methodology**Sept 15 through Jan 12. Mon 3-5. \$330. (30 hours)****Dr. Daniel Fine.**

A general consideration of the philosophy and methodology of basic and applied research, including a discussion of the art of scientific investigation, the laws and ethics of human experimentation, potential areas of research in the basic sciences and clinical dentistry, the use of the library, the role of statistics, techniques of clinical research, writing for the scientific literature, animal care, and funding of projects.

CDE 901. Cariology**March 2-23. 3:30-5. \$70. (6 hours)****Dr. Irwin Mandel.**

Lectures in the etiology and histopathology of dental caries, including recent advances in caries prophylaxis.

CDE 903. Orofacial growth and development**Jan through March. Dates and times to be announced. \$100. (9 hours)****Dr. Sidney Horowitz.**

Lectures on childhood and adolescent growth, development of the dentition, hereditary and environmental influences on growth, craniofacial malformations, and prediction of facial growth.

CDE 905. Oral medicine and clinical oral pathology**Sept 19 through Jan 16. Fri 12:45-2:45. \$330. (30 hours)****Dr. David J. Zegarelli.**

A comprehensive description and discussion of the diseases of the mouth, jaw, and related structures. Emphasis on clinical, radiologic, and histologic differential diagnosis.

CDE 911. Gross and functional anatomy of the head and neck: oral histology and embryology**Sept 16 through Jan 13. Tue 1:30-5. \$500. (53 hours)****Drs. Melvin Moss, Lettie Moss-Salentijn, and Charles R. Noback.**

Conducted in three parts. After a detailed survey of the gross anatomy of the head and neck, course offers a concise review of the functional interrelations and their dynamic significance. Pertinent clinical topics are analyzed from this viewpoint. The third part covers the growth and development of the jaw and face, and microscopic anatomy of the teeth and surrounding and related tissues of the oral cavity. Application to clinical dentistry emphasized.

CDE 915. Psychiatry and psychosomatic medicine and their interrelationships with dentistry**Sept 16 through Jan 13. Tue 12-1:30. \$280. (27 hours)****Dr. Leon Lefer.**

Presentation of basic concepts of psychodynamics, psychopathology, and psychosomatic medicine with clinical material showing their synthesis with dentistry.

CDE 923. Pharmacotherapeutics (drug use in the dental practice)**Jan 30-May 8. Fri 3-4:30. \$250. (22 hours)****Dr. Norman Kahn.**

Lectures on the application of pharmacologic principles and therapeutics in dental practice. Topics include: analgesics—choosing the proper analgesic for the appropriate patient and time; local anesthetics and current concepts; drugs affecting the cardiovascular system of the dental patient; antibiotics, chemotherapy of dental and oral infection, prophylactic use, selecting the appropriate drug; the role of the dentist in the management of patients receiving drugs for systemic disease, drug interactions and side effects; and drugs affecting salivation.

CDE 965. Microbiology and immunology**Sept 18 through Jan 5. Th 1-3. \$310. (28 hours)****Dr. Irving Naidorf.**

A review of the principles of bacteriology and immunology, with particular reference to applications in aseptic procedures and the control of infection in endodontics and periodontics. The relationships between the immune and inflammatory responses with emphasis on clinical endodontics and periodontics.

CDE 227. Endodontic guest lectures**Twenty Wednesdays, dates to be announced, 3-5. \$440. (44 hours)****Lecturers and CEU's to be determined in September, 1980**

Prominent clinicians and researchers lecture or conduct seminars on the recent advances in endodontic theory, practice, or research.

CDE 641. Nutrition**February through March. Wed 1-2. \$80. (7 hours)****The staff, Institute of Human Nutrition**

The study of human nutrition with emphasis on the requirement of normal growth and development and on the prevention of oral pathology.

Division of Dental Hygiene

As the need for preventive dental services increases, the spotlight focuses on the dental hygienist. Present and future demands, both national and international, far exceed the number of dental hygienists now available and in training.

The division of Dental Hygiene at Columbia University offers three degree programs in dental hygiene:

1. The baccalaureate program (A) for students with two years of preparatory liberal arts college credits;
2. The baccalaureate program (B) for registered dental hygienists who are associate degree or diploma school graduates; and
3. The Master of Science degree in dental hygiene for registered dental hygienists who hold a bachelor's degree.

Continuing Education Programs

The Division also offers continuing education courses designed specifically for registered dental hygienists to keep them abreast of recent developments in their specialty and to maintain maximum professional performance. These courses include reviews of basic science information, laboratory and clinical practice in new techniques, and seminars highlighting current research.

Dental Hygiene: Courses of Instruction

Application forms are printed on the last page of this bulletin. See *Medicine: The Postgraduate Program*—Admission Requirements and Procedure for guidelines on the application procedure. Fees are as stated in the course descriptions. A refund for withdrawal from a course, minus \$10 administrative charge, will be given only if written notification is received ten days prior to the course. Records of attendance are maintained and a statement of attendance will be issued upon completion of a course by the Office of the Registrar.

CDE 196. Extended functions for the dental hygienist in restorative dentistry: a two-day course

November 15 and 22. Sat 9-5. \$130. (1.4 CEUs)

Nancy McVay, R.D.H., M.S. and Linda Bohacek, R.D.H., M.A.

Limited enrollment. Registration is for both days.

Workshop involves extensive laboratory work to familiarize the dental hygienist with temporary restorations, temporary crown construction, rubber dam placement, and fluoride tray construction. Proof of liability insurance enables participants to alternate patient-practitioner roles, otherwise, manikins are provided.

CDE 197. Long cone techniques in dental radiology

December 6, 1980. Sat 9-5. Dentists \$70, dental auxiliaries \$60. (0.7 CEU)

Olga Ibsen, R.D.H., M.S. and Anne Lyons, R.D.H., B.S.

Didactic and clinical experiences in long cone techniques for dentists, hygienists, and assistants who are responsible for taking x-rays. Update of clinical skills used in this new, widely-used technique as well as providing information necessary to render optimal radiographic services to dental patients.

CDE 198. Current theories of periodontal disease etiology

January 17, 1981. Sat 9:30-12:30. \$35. (0.3 CEU)

Ronald B. Odrich, D.D.S.

Periodontal disease causes three times the rate of tooth loss as dental caries. Attempts to discover the precipitating factors in this disease complex have provided interesting clues and have led to novel approaches to treatment, such as phenol and citric acid root application and systemic antibiotic coverage. Recent research findings allow the hygienist to acquire the latest concepts in the treatment of periodontal disease.

CDE 199. Instrument sharpening workshop

January 17, 1981. Sat 1:30-4:30. \$35. (0.3 CEU)

Judy Goodrich, R.D.H., M.S. and Susan Rod Graham, R.D.H., B.S.

A review of the principles of instrument sharpening with audience participation. Instrument design, appropriate selection and care of sharpening stones, as well as effective means of sharpening scalers and curets discussed. Participants are required to bring curets, scalers, sharpening stones, and a small magnifying lens.

CDE 200. Review of periodontics

February 28, 1981. Sat 9:30-4:30. \$60. (0.7 CEU)

Marlene Klyvert, R.D.H., M.S., M.Ed. and Johanna Odrich, R.D.H., M.S., M.P.H.

This seminar relates the histologic features of the periodontium to clinical characteristics. Differentiation of normal tissue from diseased structures and identification of inflamed tissue permits the hygienist to plan appropriate and effective treatment. Pathogenesis, symptomatology, and epidemiology of periodontal disease discussed.

CDE 201. Diet, nutrition, and oral health

March 21, 1981. Sat 9:30-12:30. \$35. (0.3 CEU)

Valerie Cooke, R.D.H., M.S.

Provides current and accurate information on nutritional requirements including basic nutritional concepts, cariology, host resistance, and clinical signs of nutritional deficiencies. Discussion includes current ideas on American eating habits and ways to establish healthy dietary habits. Dietary screening procedures, application of basic nutrition and counseling techniques for dental professionals presented.

CDE 202. Dental hygiene practice: What's the law?

April 4, 1981. Sat 12:30-4:30. \$30. (0.3 CEU)

Judy Goodrich, R.D.H., M.S. and Linda Bohacek, R.D.H., M.A.

An important workshop for practitioners and educators. The encouragement of fuller use of dental auxiliaries has prompted many states to evaluate the duties assigned to dental hygienists. Course presents answers to questions every hygienist should be asking: What is a 'Sunset Review'? What duties can the hygienist perform in Connecticut, New Jersey, and New York? Where can hygienists practice? Who decides? Guest speakers provide factual information on practice acts and on current legal cases involving dental hygienists.

CDE 203. Three-day practicum: instruments and instrumentation

May 18-21, 1981. Mon 12:30 to Th 12:30. \$170. (2.1 CEUs)

Judy Goodrich, R.D.H., M.A., and staff.

Designed primarily for participants interested in analyzing and evaluating instrumentation. Workshop with instruction in the use of Gracey and Columbia curets. The practicum and lectures highlight effective instrumentation for root planing procedures with evaluation of specific instruments and their appropriate use. Laboratory coats and uniforms for clinical work and proof of liability insurance required. Instruments provided for the duration of the course.

Course Name and Number _____

COLUMBIA UNIVERSITY
Continuing Education Application Form
(Please Print or Type)

Date _____

Fee \$ _____

Name _____ Telephone (_____)
Last First Middle

Address _____ Zip _____
Street City State

Hospital/Medical Sch. Affiliation _____ Business telephone (_____)

Degree _____ Year _____ University _____ Sex _____

Type of Specialty _____ Board Certified _____

The registration of the undersigned and his or her continuance upon the rolls are subject to all rules and provisions set forth in the statutes and announcements of the University.

Date _____ Signature _____

Please make your check payable to **Columbia University**, and mail with this form to:
Dr. Elizabeth C. Gerst, Director, Continuing Education Center, 630 W. 168 Street, N.Y., N.Y. 10032
(212) 694-3682

All foreign payments should be made by a draft on a United States bank

Refund for withdrawal, after deducting an administrative charge, made only upon written request 10 days prior to course. No refunds after this date.

Continuing Education Credit: _____ credit hours, Category 1, A.M.A.'s Physician's Recognition Award
or _____ C.E.U.'s

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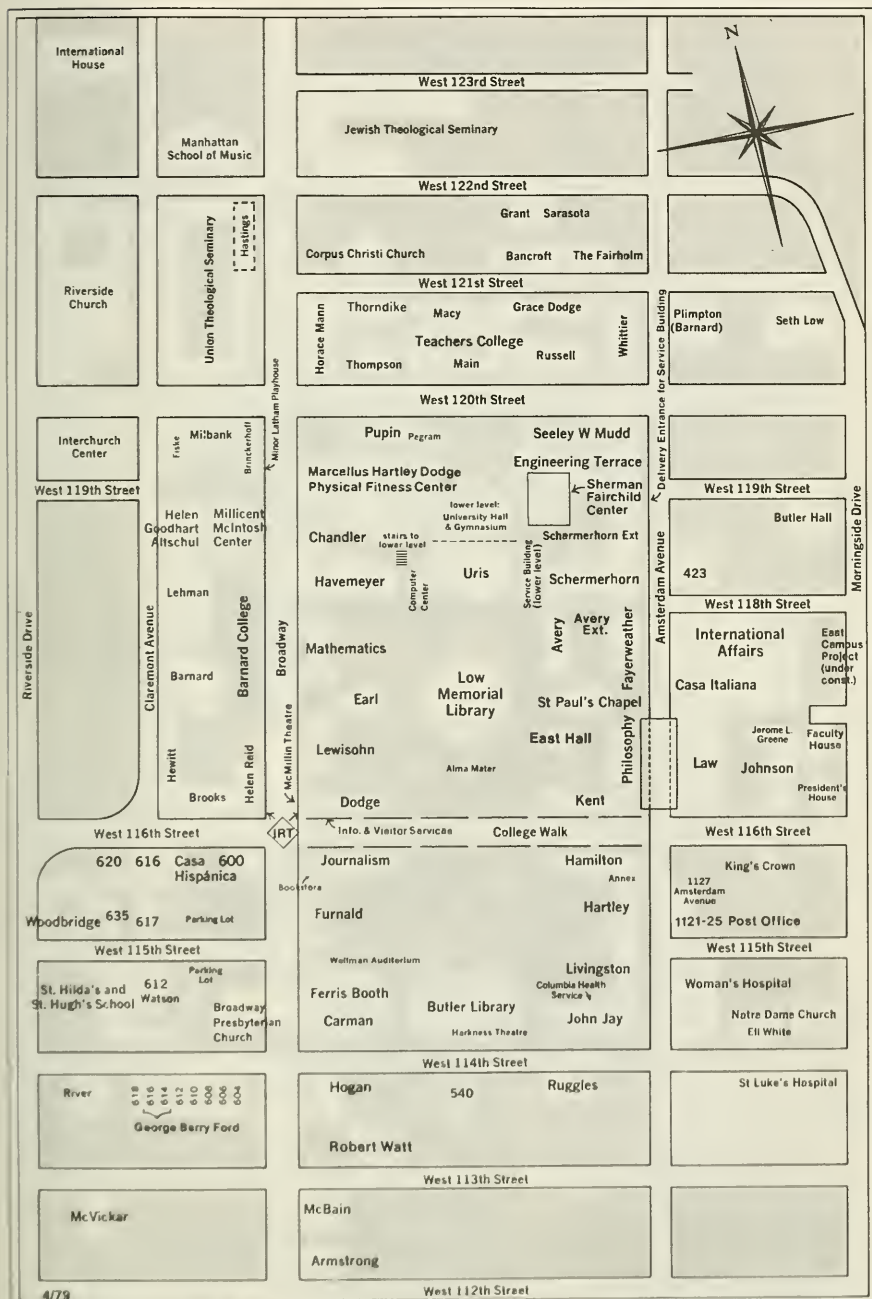
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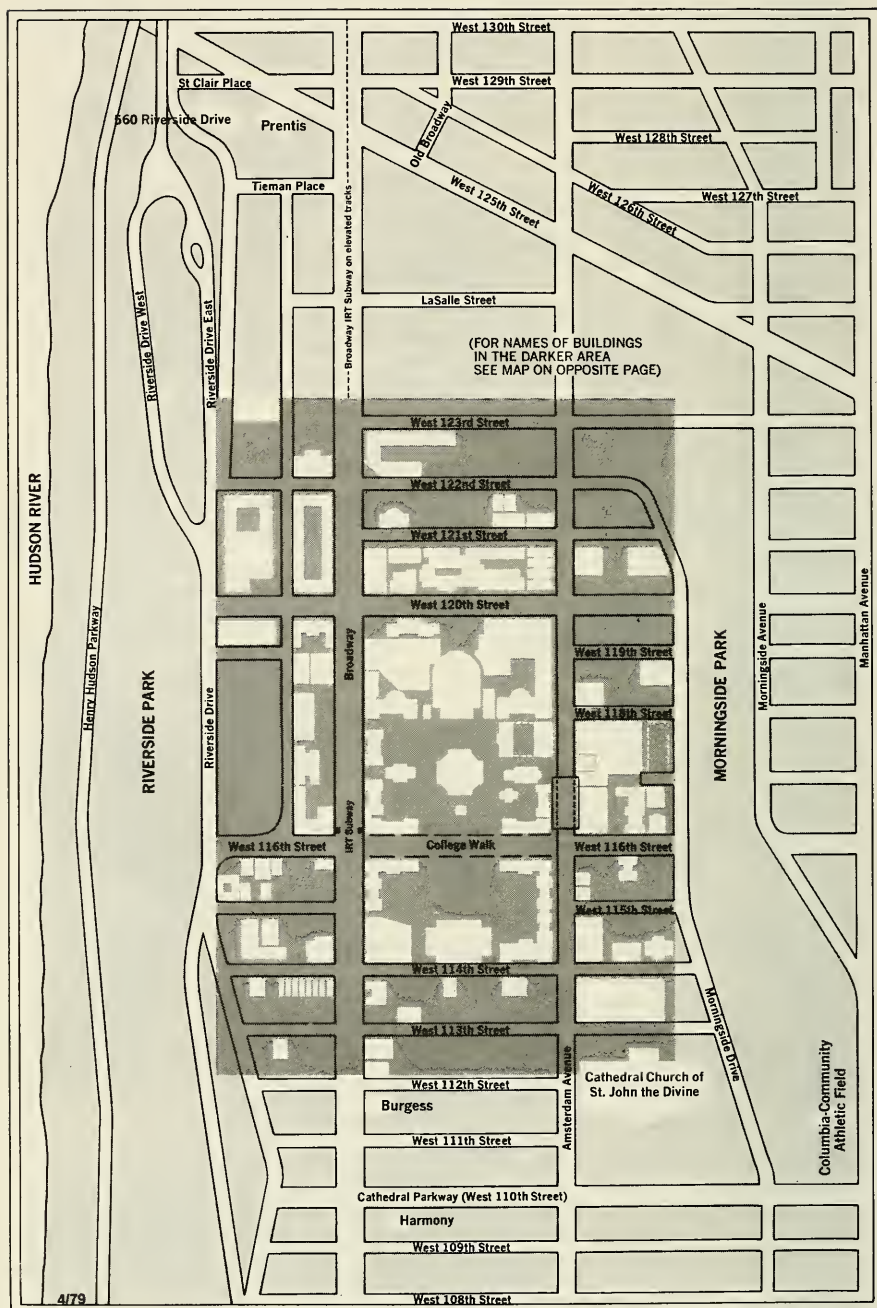
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The Morningside Campus & Environs



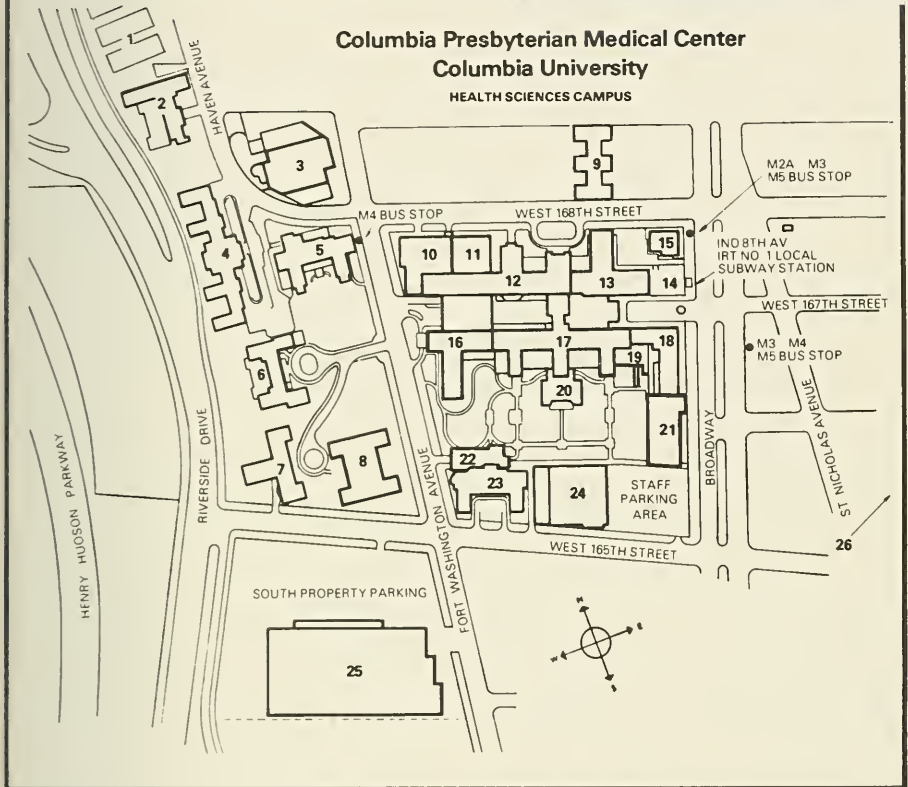
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**Columbia Presbyterian Medical Center
Columbia University**
HEALTH SCIENCES CAMPUS



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|--|--|---|
| 11 Alumni Auditorium | 13 School of Dental and Oral Surgery | 6 Anna C. Maxwell Hall, School of Nursing Residence |
| 3 Augustus Long Library | 9 Georgian Nurses Residence | 5 The Neurological Institute of New York |
| 8 Dana W. Atchley Pavilion | 22 Edward S. Harkness Eye Institute | 6 School of Nursing |
| 18 The Babies Hospital | 23 Eye Institute Research Laboratories | 25 Parking facilities |
| 21 Babies Hospital Research, Teaching, and Office Addition | 7 Harkness Memorial Hall | 17 Presbyterian Hospital |
| 2 Bard Hall Medical Student Residence | 16 Harkness Pavilion | New York Orthopedic Hospital |
| 1 Bard Haven Towers | 20 Pauline A. Hartford Memorial Chapel | Sloane Hospital for Women |
| 10 William Black Medical Research Building | 3 Julius and Armand Hammer Health Sciences Center | Squier Urological Clinic |
| 3 Cancer Center/Institute of Cancer Research | 3 Institute of Human Nutrition | 4 New York State Psychiatric Institute |
| 24 Central Service Building | 3/12 International Institute for the Study of Human Reproduction | 4 Psychoanalytic Clinic |
| 12 College of Physicians and Surgeons | | 15 School of Public Health |
| 26 Center for Community Health Systems | | 19 Radiotherapy Center |
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